

## IV. School of Architecture and Planning

### Officers of Instruction Faculty

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Judith Meany, Ph.D., FAICP	<i>Associate Dean for Academic Affairs, Clinical Associate Professor</i>
Hollee Becker, M.Arch.	<i>Associate Dean for Student Affairs, Associate Professor</i>
Catherine Sullivan, M.A.	<i>Assistant Dean for Administration and Recruitment</i>
Patricia Andrasik, M.Arch., AIA, IIDA, LEED AP	<i>Assistant Professor</i>
Julio Bermudez, Ph.D.	<i>Professor</i>
Luis Eduardo Boza, M.Arch.	<i>Associate Professor</i>
Ann Cederna, M.Arch., AIA	<i>Professor</i>
Lavinia Fici Pasquina, M.Arch., RA (Italy)	<i>Associate Professor</i>
Christopher P. Grech, B.Arch., RIBA	<i>Associate Professor</i>
Vytenis Gureckas, M.S.B.D., RA	<i>Associate Professor</i>
Miriam Gusevich, M.Arch.	<i>Associate Professor</i>
G. Bradley Guy, B.Arch. MSAS	<i>Director MSSD/MSFM Program, Clinical Associate Professor</i>
Eric J. Jenkins, M.Arch., M.Des.S., AIA	<i>Professor</i>
J. Ronald Kabriel, M.Arch.	<i>Assistant Professor</i>
Julius S. Levine, B.S.CE., M.C.P., FAICP	<i>Professor</i>
Adnan Morshed, Ph.D.	<i>Associate Professor</i>
Barry D. Yatt B. Arch., FAIA	<i>Professor Emeritus</i>
Stanley I. Hallet, M.Arch., FAIA	<i>Professor Emeritus</i>
Walter D. Ramberg, B.Arch., AIA	<i>Professor Emeritus</i>
John V. Yanik, M.Arch., AIA	<i>Professor Emeritus</i>

### Associates of the Faculty

Timothy Bertschinger	<i>Lecturer</i>
Mark McInturff, B.Arch., FAIA	<i>Lecturer</i>
Iris Miller, M.Arch., ASLA	<i>Lecturer</i>
Travis L. Price III, M.Arch., FAIA	<i>Lecturer</i>
David Shove-Brown, B.Arch., AIA	<i>Lecturer</i>
William Bonstra FAIA	<i>Lecturer</i>
George Dove, M.Arch	<i>Lecturer</i>
Hussan Elkhraz, M.Arch	<i>Lecturer</i>
Eric Liebmann	<i>Lecturer</i>
Paul Totten, P.E. (MD, VA), LEED AP	<i>Lecturer</i>

### Mission

CUA's School of Architecture and Planning attracts students from throughout the United States and the world who are aware of the school's long history and educational renown. The professional architecture program at CUA was established in 1911, and after nine decades its reputation is expressed in a continuing legacy of design excellence-early Beaux Arts prizewinners to contemporary AIA award-winning faculty work and student projects.

In CUA's School of Architecture and Planning, students are exposed to the foundational, the conventional and the classical, as well as to the experimental and unorthodox. Diverse theoretical perspectives, paradigms, project types from varied architects landscape architects, urban designers and planners become key elements in our various teaching/learning activities. Our full-time faculty,

along with a distinguished array of adjuncts and visiting lecturers and studio critics drawn from the profession, provide our students with an excellent, stimulating context within which they pursue their learning.

### **Goals**

Historically, the profession of architecture has placed the highest priority on the artful creation of place, incorporating the great Roman architect/engineer Vitruvius' three principles of firmness, commodity and delight. Consequently, the architect must be well versed in the arts, technically skilled, and possess a deep understanding of the human condition. Thus, the school seeks to impart a proper sense of ethics and a spirit of service to the community. The emphasis on these qualities gives professional training its distinctive character at The Catholic University of America.

The School of Architecture and Planning is dedicated to the professional education of those who will design, build and conserve the built environment, principally as architects and urban planners. Utilizing Washington and other metropolitan areas as design laboratories, the graduate program provides an enriching educational climate in which students investigate the realms of design, theory and building in the context of the world in which we live. Students are exposed to a diversity of architectural experiences through a choice of graduate concentrations that include Classical Architecture and Urbanism, Cultural Studies/Sacred Space, Technology, Media and Interiors, Real Estate Development, and Urban Practice..

Central to the graduate program is the design studio, where students pursue their architectural inquiries individually or in teams. Design studios are directed by faculty members who have extensive experience in both practice and teaching. Visiting critics whose professional experience is relevant to the studio projects are brought into the school to provide richness and diversity to the students' design education. The studio experience culminates in a design thesis. Supporting the studio experience are advanced courses in architecture, planning and related fields. Lectures, seminars and exhibitions are devised to introduce the student to the multitude of considerations faced by the practicing architect to reveal differing philosophies and attitudes toward architectural design. As in the studios, lecturers are invited from among the many outstanding professionals practicing in the Washington area to provide informal talks on their current work, teach or add their particular insights to the core courses.

### **Degree Programs**

#### **The Professional Degree**

CUA offers several options for earning the Master of Architecture professional degree. The two-year M.Arch. program is intended for students with a four-year undergraduate pre-professional degree in architecture. Select students graduating from CUA with a four-year Bachelor of Science in Architecture may be eligible for advanced standing, thereby reducing graduate study from four semesters to three semesters. The three-year M.Arch. program is intended for students who hold an undergraduate degree in a field other than architecture. These Master of Architecture degree programs are fully accredited by the National Architectural Accrediting Board.

#### **The Post-Professional Degree Program**

The Master of Architectural Studies is offered to applicants who already hold a professional degree in architecture and wish to pursue further investigations in design or design-related topics. Students are offered an intensive curriculum in one of five areas of concentration: Classical Architecture and Urbanism, Cultural Studies/Sacred Space, Technology, Media and Interiors, Real Estate Development, and Urban Design. The program requires a minimum of one-and-a-half years of advanced study tailored to the needs and interests of the individual.

### **Accreditation**

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board, NAAB, which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 8-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Master's degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

### **Location**

CUA's location in Washington, D.C., puts students in touch with unparalleled professional and cultural resources. Its spacious campus lies within a 10- minute drive of the U.S. Capitol and the National Mall. Numerous national and international experts live and work in the vibrant and diverse metropolitan area and contribute to the graduate program each academic year.

The specialized expertise of these associates of the faculty allows the school to offer an outstanding array of graduate coursework. The school has had relationships with numerous Washington, D.C., cultural and artistic institutions, including the National Building Museum, the Library of Congress and others. In addition, the school's location offers it unparalleled access to many national chapter headquarters of various design-oriented organizations, such as The American Institute of Architects, AIA, the Association of Collegiate Schools of Architecture, ACSA, the National Architectural Accrediting Board, NAAB and the American Institute of Architecture Students, AIAS. The school has also over the last several years maintained a relationship with various embassies in the region, sponsoring cooperative lecture and exhibit programs with the Italian embassy, and others.

## **Faculty and Resources**

Many of our faculty members are recognized as leaders in the design and professional realms with world-famous guest critics and lecturers augmenting the full-time teaching staff. Student-to-professor ratios are kept small to ensure that students receive intensive one-on-one critiques and advising from studio critics and professors.

Our award-winning facilities are housed in the original CUA gymnasium and provide a classic example of adaptive re-use at its best. Designed by a faculty member, the architecture center was conceived as a small city with "streets" filled with students and their work, a "piazza" for special exhibits and a "town hall" for lectures and meetings. In addition, students' needs are served by our library CAD lab and output room, visual resource center and fabrication lab, which includes wood and metalworking shops, two CO2 laser cutter and engraving systems, a 3D printer and a three-axis CNC milling machine.

Through the Consortium of Universities of the Washington Metropolitan Area, students may earn credits from among the several other institutions of higher learning in the community.

## **Concentrations**

The School of Architecture and Planning currently offers five areas of concentration available to students for more focused specialization during their graduate education. These are Classical Architecture and Urbanism, Cultural Studies/Sacred Space, Technology, Media and Interiors, Real Estate Development, and Urban Practice.

### **Cultural Studies/Sacred Space**

The pursuit of cultural studies and the investigation and design of sacred space is intrinsic to CUA's mission. This concentration affords students an opportunity to explore cultural studies and the related issues of settlement, geography and landscape. The studios and related seminars explore a variety of historic case studies, theoretical positions and architectural strategies that have been or can be taken when architects are obliged to intervene in arenas of great cultural context and, in particular, in the re-articulation of sacred space.

The dilemma of relating the exigencies of our "time" to the traditional forms and rituals of the past are only further complicated by a situation where once identifiable cultural groups have now been thrown into disjunction, discontinuity and disarray. Thus, the often irreconcilable debate between "natural state" and chaos, between nostalgia for the past and the "crisis of modernity," between critical regionalism and international style, become but a few of the issues the concentration examines. (Director: Julio Bermudez, Ph.D., professor; e-mail: [bermudez@cua.edu](mailto:bermudez@cua.edu)).

### **Technology, Media and Interiors**

The profession of architecture is challenged by digital technologies in many ways. Some of these technologies expand the way we create, understand and modify space, as well as the way we experience it. The use of digital technologies ultimately influences the way architects approach design, practice and build. Three-dimensional modeling and visualization software offer alternatives to the development of form and the outcome of the designer's "vision." Animation, rendering and special effects editing tools also influence the way a design is communicated and perceived. (Director: Lavinia Fici Pasquina, associate professor; tel: 202-319-6719; e-mail: [ficipasquina@cua.edu](mailto:ficipasquina@cua.edu)).

### **Real Estate Development (Evening program)**

Modern architecture practice encompasses a wide array of architecture design challenges with a growing emphasis on privately financed residential and commercial real estate development projects. Real estate development in the 21st century includes a broad range of projects including urban mixed use, suburban new towns and adaptive reuse of historic structures, all requiring design expertise. Practicing architects can significantly enhance the quality of built environment, while at the same time taking advantage of potential business opportunities to share in these market-driven forces through an educational grounding in the fundamentals of real estate development. (Director: Judith Meany, Ph.D., FAICP, clinical associate professor; tel: 202-319-5642; e-mail: [meany@cua.edu](mailto:meany@cua.edu)).

### **Urban Practice**

Urban design is the keystone that links architecture and planning. The spatial concerns of the architect and the public policy issues of the planner are brought together by the urban designer to create an implementable vision for the city that moves beyond the individual building and the limits of policies focused primarily on public health, welfare and safety. The Urban Design concentration emphasizes the relationship of an individual project to the public realm. This concentration expands a graduate's design options to include opportunities in both the private and public sectors, here and abroad. (Director: Eric Jenkins, M.Arch., M.Des.S., AIA, associate professor; tel: 202-319-4315; e-mail: [jenkinse@cua.edu](mailto:jenkinse@cua.edu)).

### **Foreign Studies**

The School of Architecture and Planning offers a variety of foreign study options for graduate students. Our new Rome Center offers study abroad opportunities for both undergraduate and graduate students. All graduate students may participate in the 18-credit

program. Utilizing various modern and historical sites, students are introduced to the interconnectedness of the public and private realms with issues of urban density, security, convenience and amenity. CUA students and faculty collaborate with their counterparts from local universities, as well as world-renowned architects based in Rome. The studio is augmented by travel, seminars and lectures by local faculty.

Our longest running foreign program, the Patrick Cardinal O'Boyle Summer Foreign Studies Program, is an offering exclusively reserved for graduate students. The program focuses on studio work in Rome and other parts of Italy, with additional travel to two other venues in and around Europe. Travel itineraries change from year to year to enable diverse faculty to plan trips around their past and present contacts and experiences. These programs are GPA-based and participating students earn 15 credits toward the professional degree. A seat in the Cardinal O'Boyle program can also be secured in an intensive design competition in the fourth-year of the CUA B.S. in Architecture program.

In addition to these programs, CUA offers many other opportunities for domestic and foreign travel.

### **Special Programs**

#### **Summer Institute for Architecture**

Each summer, the School of Architecture and Planning conducts the Summer Institute for Architecture, during which numerous courses at both the undergraduate and graduate levels are offered. Design studios are offered, along with. In addition, the school offers courses in history of architecture, graphics, furniture design, landscape architecture and other related areas. The faculty consists of selected members of the School of Architecture and Planning and invited faculty from other institutions.

The Summer Institute accepts students from other academic units at The Catholic University of America, and from other institutions. Interested students should contact the office of the School of Architecture and Planning for further information and applications.

#### **Experiences in Architecture**

Each summer the School of Architecture and Planning conducts a three-week session for high school or college students who are interested in investigating the field of architecture as a possible career. The students are introduced to all aspects of the study and practice of architecture, from design and history to office practice. The students live on campus and work in the design studios alongside architecture students attending the Summer Institute. Interested students should contact the office of the School of Architecture and Planning for further information and applications.

#### **Admissions**

Policies are subject to change. Please consult the School of Architecture and Planning Web site at <http://architecture.cua.edu> for current policies and requirements.

The following are required for admission into all graduate programs:

- A minimum GPA of 2.8 (out of a possible 4.0) in undergraduate studies
- A completed application
- Statement of purpose
- Certified transcripts
- Three letters of recommendation
- Official GRE scores (minimum: 1000) (Required for all architecture applicants not enrolled in the CUA B.S. in Architecture program.)

A portfolio demonstrating design excellence over a broad range of architectural and technical challenges is required for all applications to the two-year M.Arch. program and the post-professional Master of Science in Architectural Studies.

Students applying to the three-year M.Arch. program must have completed two prerequisites for acceptance: pre-calculus math and an introductory course in physics emphasizing mechanics.

The application deadline for all programs is January 15. Late applications may be accepted through March 1, space permitting.

#### **Degree Requirements**

Policies are subject to change. Please consult the School of Architecture and Planning Web site at <http://architecture.cua.edu> for current policies and requirements.

A minimum grade point average of 3.0 in graduate studies is required for graduation in all degree programs.

#### **Master of Architecture (Two-Year Program)**

##### **The Program**

Students accepted into this program are admitted as Master of Architecture degree candidates, but must complete any undergraduate design studio and professional and technical courses in which their background is deficient, in addition to the graduate course requirements. The academic and work background of each student entering the program in this category is thoroughly reviewed. Based on this review, a degree program will be individually tailored to fit the needs of the student. Students entering the program with professional experience might be allowed to skip certain classes, but the credits must be fulfilled with a program elective or by way of transferring credit for previously taken equivalents. If transfer credit is not applicable then the credits will have to be replaced by taking other courses offered by the school.

<b>Program of Studies</b>	<b>Semester Hours</b>
<b>Semester 1</b>	
ARPL 601 Architectural Design Themed Studio I	6
ARPL 636 Design Process and Methods	3
ARPL Concentration Elective 1--- Required course associated with the themed studio	3
ARPL Concentration Elective or ARPL 518 Advanced Architectural Theory or approved equivalent	3
<b>Semester 2</b>	
ARPL 602 Comprehensive Building Design Studio	6
ARPL 632 Comprehensive Studio Supplement	3
ARPL 742 Advanced Structures	3
ARPL Concentration Elective or ARPL 518 Advanced Architectural Theory or Approved equivalent	3
<b>Semester 3</b>	
ARPL 603 Architectural Design Themed Studio II	6
ARPL---Required course associated with the themed studio	3
ARPL---Concentration Elective	3
ARPL 696A Thesis Research	3
<b>Semester 4</b>	
ARPL 696B Thesis Design	6
ARPL 722 Practice Management	3
<b>LSE Elective</b>	3
<b>ARPL Elective</b>	3
<b>Total Credits</b>	<b>60</b>

Students awarded advanced standing must meet with the associate dean for graduate studies to develop their program of studies. Students with advanced standing must complete 46 semester credit hours in design, history/theory, technology, planning and professional practice.

Students must achieve at least a 3.0 cumulative grade point average in order to fulfill the requirements for the degree. Students may be allowed to repeat courses to improve their standing. In such cases, the highest grade earned in those courses will be considered in determining academic standing.

Since a C grade is passing but marginal at the graduate level, C grades are permitted in a maximum of one-third of the courses required for the degree. A grade of C in studio courses is not acceptable; students who earn C grades may repeat only one studio course.

### **Master of Architecture (Three-Year Program)**

#### **The Program**

Students accepted to this program must complete the graduate course requirements plus those basic architecture courses in which their background is deficient. The academic and work background of each student entering the program in this category will be thoroughly reviewed. Based on this review, a degree program will be tailored to fit the needs of the student. In most cases, the student can expect to be enrolled in both graduate and the basic courses at the same time. The design studio and the mathematics/technical courses are the heart of the curriculum and rely heavily on an extended sequence of prerequisites. Students will be placed in each sequence according to their academic background and experience.

Students will be advanced according to their demonstrated abilities. Summer school may be utilized to facilitate the student's advancement. Admission to the 600 level design studios will be on the basis of portfolio review and approval.

Students entering the program with professional experience might be allowed to skip certain classes, but the credits must be fulfilled with a program elective or by way of transferring credit for previously taken equivalents.

<b>Program of Studies</b>	<b>Semester Hours</b>
ARPL 500 Intro to Design and Graphics (Summer Course)	6
<b>Semester 1</b>	
ARPL 501 Studio I	6
ARPL 541Structures I	3
ARPL 633 Construction 1	3
ARPL 511 History of Architecture I	3
ARPL 532 Environmental; Systems Design 1	3
<b>Semester 2</b>	
ARPL 502 Studio II	6
ARPL 522Structures II	3
ARPL 514 Introduction to Architectural Theory	3
ARPL 731Environmental Systems II	3
ARPL 512History of Architecture II	3
<b>Semester 3</b>	
ARCH 601 Architecture Design Themed Studio	6
ARCH-Required concentration course associated with the themed studio	3
ARPL 636 Design Process and Methods	3
ARCH 735 History of Architecture III (Modern)	3
ARPL 621 Digital Construction Documents	3
ARPL Concentration Elective	3
<b>Semester 4</b>	
ARPL 602 Studio III: Comp. Bldg Studio	6
ARPL 632 Comprehensive Building Design Supplement	3
ARPL Concentration Elective	3
ARPL Concentration Elective	3
ARPL518 Advanced Theory of Architecture or approved equivalent	3

**Semester 5**

ARPL 603 Architectural Design Themed Studio II	6
ARPL Required course associated with the themed studio	3
ARPL 721 Structures III	3
ARPL Concentration Elective	3
ARPL 696A Thesis Research	3

**Semester 6**

ARPL 696B Thesis Design	6
ARPL 722 Professional Practice	3
LSE Elective	3
ARPL Concentration Elective	3

**Total Credits** **111**

Students must achieve at least a 3.0 cumulative grade point average in order to fulfill the requirements for the degree. Students may be allowed to repeat courses to improve their standing. In such cases, the highest grade earned in those courses will be considered in determining academic standing.

Since a C grade is passing but marginal at the graduate level, C grades are permitted in a maximum of one-third of the courses required for the degree. A grade of C in studio courses is not acceptable; students who earn C grades may repeat only one studio course.

**Master of Architectural Studies (One-and-a-half-Year Program)**

**Admission**

Acceptance is dependent on overall academic performance as an undergraduate and graduate student, the applicant's specific design interests, and the strengths and ability of the faculty to serve those interests. In the admission review process, special attention is given to the comprehensive design portfolio, statement of intent, professional experience, any related research and publications, and pertinent references. Persons interested in this program are encouraged to discuss their academic goals with the graduate program adviser in advance of making a formal application.

Various areas of concentration are available in this degree program (refer to section on concentrations above).

<b>Program of Studies</b>	<b>Semester Hours</b>
ARPL 603 Master of Architectural Studies Themed Studio I	6
ARPL 701 Master of Architectural Studies Themed Studio II	6
ARPL 696A Thesis Field Work and Research	3
ARPL 594 Independent Study/Internship	3
ARPL 696B Master of Architectural Studies Thesis	6
ARPL-History/Theory Elective	3
ARPL-Program Electives (three )	9
<b>Total Credits</b>	<b>36</b>

**Master of City + Regional Planning (M.C.R.P.)**

**Two Year, Professional degree**

CUArch's Master of City and Regional Planning (MCRP) links design with policy to assist planners in the stewardship of the built, natural, and cultural environments. Building on the university's strong tradition of architecture programs, the MCRP curriculum prepares students with the foundation to become urban planners according to the CUArch mission of "Building Stewardship." To address the growing need for planning and design interventions that include environmental impacts, students in the City and Regional Planning program will explore various methods of creating better environments through the use of sustainable design practices and planning principles.

Located in the culturally and architecturally diverse Washington, DC, students in this program have the added benefit of exploring a wide variety of planning issues, interventions, and solutions as addressed in practice. This perspective is further extended to the

region to understand planning interventions in the context of urban, suburban, and exurban locations.

Students may enroll simultaneously in the school's accredited Master of Architecture (M.Arch.) program and the Master of City and Regional Planning. As part of the joint degree program, students are able to obtain the two degrees at an accelerated rate. The MCRP/M.Arch joint degree program requires a total of 94 semester hours of graduate credit. Completion of both degrees separately would require a total of 109 hours.

**MCRP CURRICULUM**  
**JOINT DEGREE MCRP/MARCH**  
**JOINT DEGREE ADVANCE STANDING**

**Master of Science in Sustainable Design (M.S.S.D.)**

**Two Year, Professional degree**

The MSSD program consists of 30 credit hours of coursework. Students can enroll on a full-time or part-time basis. The majority of courses are held after 6:30PM to accommodate working professionals. There are no maximum or minimum time requirements to complete the program. A twelve credit hours certificate is also available.

**Joint Degree**

Students may enroll simultaneously in the school's accredited Master of Architecture (M.Arch.) program and the Master of Science in Sustainable Design. This joint degree program allows students to obtain the two degrees at an accelerated rate. The MSSD/M.Arch joint degree program requires a total of 79 semester hours of graduate credit, opposed to 91 hours to complete both degrees independently.

**MSSC CURRICULUM**  
**JOINT DEGREE MSSD/MARCH**

**Master of Science in Facilities Management (M.S.F.M.)**

Facilities Management combines the subfields of asset management and property management, and is closely related to human resources management and information technology management. It is a fast-growing profession, launched in the 1980s in response to the growing need for sustainable, secure, technologically-sophisticated buildings and the growing appreciation of the need to consider facilities in a business' strategic planning.

Increasingly, facilities are expected to be responsive to the work- and life-styles of those who work, live, or play in them while being energy- and water-efficient, cost-effective, well maintained, adaptable, and safe in the face of security concerns and natural disasters. Courses offered in this program are designed to prepare facility managers to serve the needs of commercial and institutional facilities with particular emphasis on governmental and private cultural, educational, religious, and military facilities such as embassies, schools, churches, and bases. The FM program takes a creative, holistic and strategic approach to facilities management, while reinforcing the importance of ethics and stewardship. It is interdisciplinary in nature and strongly supported by CUA's Schools of Professional Studies, Business & Economics, Engineering, Law, and Arts & Sciences.

Located in the nation's capital, with a mass-transit station immediately adjacent to campus makes access easy for practicing and aspiring facility managers working with the State Department, the General Services Administration, the Smithsonian Institution, the Pentagon, and the many private institutional and commercial organizations with a strong presence in Washington, DC. CUA FM is currently coordinating with multiple agencies, organizations, and corporations to facilitate enrollment by their employees. Those who are interested in applying are encouraged to contact the FM program director to discuss opportunities.

**MSFM CURRICULUM**

**Master of Architecture (M. Arch. 2 or 3) + Master of Science in Facilities Management**

MSFM/M.Arch: For those interested in developing competency in building design and management. The Master of Architecture degree is fully accredited by the National Architectural Accreditation Board.

MSFM/MSSD (Master of Science in Sustainable Design): For those interested in developing competency in the design and management of sustainable facilities.

MSFM/MCRP: Particularly suited for those interested in planning and managing large corporate, university, or manufacturing campuses or military bases

**Bachelor of Arts in Politics or Sociology and the Master of City and Regional Planning**

Students enrolled in the Bachelor of Arts or Sciences in Politics or Sociology in the School of Arts and Sciences have the ability to begin taking classes towards the professional Master of City and Regional Planning (M.C.R.P.) through the School of Architecture and Planning as early as the spring semester of their Junior year. This unique interdisciplinary program allows students to work directly with faculty across campus to enhance their academic experience. Students must separately apply to both programs.

Much of what City or Urban Planners confront involves political processes that shape the human, natural and built environments.

For the undergraduate major in politics, this joint degree arrangement instills the knowledge and skills to help communities envision their futures and to engage elected and appointed officials in the planning process of creating livable communities. Besides the issues of democracy, leadership, and political will, planners use Comprehensive Plans, zoning ordinances, and environmental regulations that impact the quality of life of stakeholders (i.e., residents, merchants, etc.). Elected officials make decisions about our communities using the framework that is created by the U.S. Constitution and established laws that not only govern a jurisdiction but also inform land development activities (as through the first, fifth, tenth, and fourteenth Amendments). Hence, this joint degree program is a natural link to the planning field which seeks to identify policies to promote equity and equality as well as social and environmental justice. Graduates of the joint B.A. in Politics + M.C.R.P. might develop urban policies for public agencies at the local, state, and federal levels (e.g. U.S. Housing and Urban Development, Environmental Protection Agency, Department of Transportation) as well as for organizations such as the Brookings Institute, the Council of Governments, or the World Bank.

Planning is also closely connected with the sociology curriculum since City Planners work with communities to address challenges of growth and change. One of the primary responsibilities of an Urban Planner is to research and intimately know the local population and its needs in order to determine the potential impacts planning decisions have on the population. The socio-economic, cultural and ethnic diversity of a community and rate of change in a population are just a few of the social trends that Planners routinely examine. Graduates of this focus now plan for aging baby-boomers in terms of mobility and housing choices; or they make recommendations about how communities can become more livable and sustainable. Planners routinely engage the public in order to develop a vision for a community that meets their aspirations and addresses their concerns. Graduates of the joint B.A. in Sociology + M.C.R.P. have a variety of options for employment in public, private, and non-profit organizations.

The joint B.A. in politics or sociology + M.C.R.P. program allows students to obtain the two degrees sooner than they could acquire each independently. Students interested in pursuing the joint B.A.+ M.C.R.P. program should consult the appropriate program of study for tracking through the programs.

Students must comply with all requirements of the undergraduate degree and major as well as the graduate degree. All requirements for final comprehensive exams and thesis in these programs must be satisfied. Students must also obtain approval for electives by the Undergraduate Associate Dean of the School of Arts and Sciences and the M.C.R.P. Program Director and/or the Associate Dean for Academic Affairs of the School of Architecture and Planning.

**Admissions Criteria:**

Undergraduate students must have a minimum grade point average of 3.3 to be considered for the joint B.A. + M.C.R.P. program. Students must apply for and be accepted into the M.C.R.P. program by the end of the fall semester of their junior year.

Contact [planningdegree@cua.edu](mailto:planningdegree@cua.edu)

## Certificate of Real Estate Development

### Professional Certificate Program

As the largest architecture program in the region, The Catholic University of America's School of Architecture and Planning is the leader in offering a fully accredited professional architecture degree program for nontraditional evening students. This program makes it possible for a full-time working student to complete or enhance his or her professional education in the D.C. metropolitan area. Our school's location, adjacent to a Metro stop and minutes from Union Station, allows easy access for students and also allows for the participation of a wide array of experienced, professionally oriented faculty.

Modern architecture practice encompasses a wide array of architecture design and business challenges with a growing emphasis on privately financed residential and commercial real estate development projects. Real estate development in the 21st century includes a broad range of projects including urban mixed use, suburban new towns and adaptive reuse of historic structures, all requiring significant design expertise. Practicing architects and allied professionals can significantly enhance the quality of the built environment, while at the same time taking advantage of potential business opportunities to share in these market driven forces through an educational grounding in the fundamentals of real estate development.

The Certificate of Real Estate Development is designed to provide graduate students with a program of study that integrates architectural design with business, law, construction management and urban planning practices, all of which form the basis of modern real estate development. The Certificate requires 15 credits of real estate development courses offered in the School of Architecture and Planning curriculum. . The Certificate provides an overview of the development process with an emphasis on understanding urban planning regulations, financial feasibility analysis, site and market analysis, architectural contract law, construction management and project financing. The faculty includes visiting architects whose practices focus on real estate development clients.

## Certificate of Sustainable Design

### 12 Credit Hour Professional Certificate Program

In addition to the full 30-credit hour degree program (Master of Science in Sustainable Design), the School of Architecture and Planning offers a 12-credit hour Certificate in Sustainable Design.

This program was developed to offer a wider range of programs for adult learning within the school and allows students to embark on a shorter program of study to suit their circumstances. The choice of core courses allows students to select a "technical" (Systems and Simulation I and II\*) or a "non-technical" (Sustainable Design Strategies, Ethics and Stewardship) track. Relevant electives are also offered.

Students enrolled in the certificate program can transfer to the full program should they wish to do so.

\*The Systems and Simulations courses have course prerequisites. Certificate in Sustainable Design 12-credit hour program

Any three of the following core courses:

- Sustainable Design Strategies (3 credits)
- Systems + Simulation I (3 credits)
- Systems + Simulation II (3credits)
- Ethics and Stewardship (3 credits)
- Materials and Assemblies (3 credits)
- + One elective (3 credits)

## Other Information

### Student Government and Professional Organizations

A number of student organizations offer opportunities for students to participate in the governance of the school and act as liaisons to professional organizations. Students of the school elect representatives to the Student Council, who, in turn, represent the student body at faculty meetings and on the University Student Council.

The school also offers student membership in the American Institute of Architecture Students and the Construction Specification Institute. Both organizations sponsor important events such as the annual job fair and professional conferences.

### Advising

Once admitted to the School of Architecture and Planning, each student is assigned an academic adviser. Normally, the students remain with their assigned adviser for the duration of their program . Given sufficient reason, the student may be reassigned to another adviser at the discretion of the associate dean. All students are required to see their advisers at least once a semester for pre-registration for the next semester's classes. Students are responsible for knowing the requirements of their specific programs and for keeping track of their progress in working toward their degrees. However, students may see their adviser at any time during the academic year regarding their academic program and status.

## Courses Offered

A full listing of graduate courses offered by the School of Architecture and Planning is found below. Consult [Cardinal Station](#) for additional information about courses and to determine course offerings by semester.

ARPL	500	Introduction to Design and Graphics
ARPL	501	Architectural Design I
ARPL	502	Architectural Design II
ARPL	503	Field Study
ARPL	504	Spirit of Place
ARPL	505	Spirit of the Place Build
ARPL	505A	Spirit of the Place Build
ARPL	505B	Spirit of Place Build
ARPL	506	Portfolio Design
ARPL	508	Drawing as Visualization
ARPL	509	Special Topics in Design and Graphics
ARPL	511	History of Architecture I
ARPL	511	History of Architecture I
ARPL	512	History of Architecture II
ARPL	512	History of Architecture II
ARPL	513	History Elective
ARPL	514	Introduction to Theory
ARPL	515	Beauty and Brains
ARPL	516	Oriental/Western Landscape
ARPL	516TTR	Transfer of Credit - Theory Elective
ARPL	517	The History of DC Architecture
ARPL	518	Advanced Architecture Theory
ARPL	519	Special Topics in History/Theory
ARPL	521	Pre Design
ARPL	523	Real Estate Development
ARPL	524	Practice Law, Real Estate, and Planning
ARPL	525	Real Estate Finance
ARPL	526	Construction Management
ARPL	527	CUAdc Design Collaborative
ARPL	528	Design-Build Practicum
ARPL	529	Topics in Management and Research
ARPL	530	Lighting Analysis
ARPL	532	Environmental Design I
ARPL	534	Energy Conservation and Renewable Energy in Buildings
ARPL	535	Building Performance Analytics
ARPL	536	Material Matters
ARPL	537	Sustainable Design Strategies & Synergies
ARPL	538	LEED Lab: Sustainable Campus Building Assessment

ARPL	539	Topics in Construction and Environment
ARPL	541	Structures I
ARPL	542	Structures II
ARPL	549	Topics in Structures
ARPL	551	Digital Tools I
ARPL	553	Parametric Modeling and Digital Fabrication
ARPL	554	Basic Digital Visualization
ARPL	555	The Parametric Model
ARPL	556	Interactive Design and Presentation
ARPL	557	The Digital Designed Object
ARPL	558	Animations in Architecture and Design
ARPL	559	Topics in Digital Tools
ARPL	559A	EDTM Module I
ARPL	559B	EDTM Module II
ARPL	559C	EDTM Module III
ARPL	559D	EDTM Module IV
ARPL	559E	Introduction to Digital Fabrication Tools
ARPL	559F	Basic Parametric Design
ARPL	559G	Advanced Digital Visualization and Animation
ARPL	559H	The Digital Designed Object
ARPL	559I	Digital Landscapes, Vegetation, Natural Forces
ARPL	559J	Arch in Digital Photography
ARPL	559K	Design Process:From Past to Present
ARPL	559L	Architecture & Visual Communication
ARPL	559M	Interior Architecture in Augmented and Virtual Reality
ARPL	571	The Facilities Management Context
ARPL	583	History of American City Planning
ARPL	584	Integrated Coastal Management
ARPL	586A	Environmental Impact Assessment
ARPL	586B	Healthy Cities, Livable Places
ARPL	586C	Intro to GIS
ARPL	586D	Politics and the City
ARPL	586E	Plan Making
ARPL	586F	Sustainable Infrastructure
ARPL	586G	Urban Morphology
ARPL	586H	City-Region Lab
ARPL	586J	Bike & Pedestrian Master Planning
ARPL	589	Topics in Planning
ARPL	590	Foreign Studies Language
ARPL	594	Independent Studies
ARPL	594A	Independent Study
ARPL	594B	Independent Study
ARPL	599	Special Topics in Architecture

ARPL	599CTR	Transfer of Credit - Concentration Elective
ARPL	599TR	Transfer of Credit
ARPL	601	Concentration Studio I
ARPL	601A	Concentration Studio Abroad Trip
ARPL	602	Architectural Design III: Comprehensive Building Studio
ARPL	603	Concentration Studio II
ARPL	603A	Concentration Studio Abroad Trip
ARPL	605	Furniture Design: Form and Concept
ARPL	606	Advanced Rendering Techniques
ARPL	611	History of Architecture III
ARPL	613	History and Theory of Urban Form
ARPL	614	Public Realm of Private Buildings
ARPL	615	Applied Urban Design Theory
ARPL	616	Sacred Space Design in the Abrahamic Traditions
ARPL	617	Theory of Sacred Space and Cultural Studies
ARPL	618	Foundations of Sacred Space/Cultural Studies
ARPL	621	Digital Construction Docs
ARPL	623	Affordable Housing
ARPL	624	Mixed Use Development
ARPL	625	Leadership Real Estate Development & Architecture
ARPL	626	Real Estate Investment
ARPL	631	The Aesthetics of Green
ARPL	632	Comprehensive Building Supplement
ARPL	633	Construction I: Assemblies and Detailing
ARPL	634	Construction II: Materials and Methods
ARPL	636	Design Process and Methods
ARPL	648	Advanced Architectural Analysis
ARPL	651	Advanced Parametric Design (BIM)
ARPL	653	Digital Lighting in Architecture
ARPL	655	Advanced Digital Design and Fabrication
ARPL	656	Advanced Digital Visualization
ARPL	659	Digital Imaging & Editing in Architecture
ARPL	671	Creative Problem Solving
ARPL	672	Occupancy Management
ARPL	673	Project & Practice Management for FM
ARPL	674	Facility Performance Assessment & Management
ARPL	675	Asset Management & Strategic Planning
ARPL	676	FM Technology
ARPL	677	Construction Design and Implementation
ARPL	678	Building Operations and Maintenance
ARPL	681	Innovations in Planning & Design
ARPL	690	Architectural Studies Abroad GFS
ARPL	694	Independent Studies

ARPL	696	Thesis Continuation
ARPL	696A	Thesis Studio I
ARPL	696B	Thesis Studio 2
ARPL	696C	Independent Thesis I
ARPL	696D	Independent Thesis II
ARPL	701	Concentration Studio III
ARPL	701A	Concentration Studio Abroad Trip
ARPL	702	Thesis Design
ARPL	704	Thesis Written
ARPL	721	Thesis Preparation
ARPL	721	Thesis Preparation
ARPL	722	Practice Management
ARPL	731	Environmental Design II
ARPL	733	Sustainable Design Strategies
ARPL	734	Systems and Simulation I
ARPL	735	Materials and Assemblies
ARPL	736	Systems and Simulation II
ARPL	737	Building Performance Verification
ARPL	742	Advanced Structures
ARPL	761	MCRP/MSSD Thesis Preparation
ARPL	762	MCRP Written Thesis
ARPL	771	Facilities Management Capstone
ARPL	780	Planning Studio
ARPL	781	Planning Origins and Traditions
ARPL	782	Planning Principles
ARPL	783	Ethics and Stewardship
ARPL	784	Planning Techniques I
ARPL	787	Planning Techniques
ARPL	788	Urban Economics
ARPL	789	Transportation and Land Use Planning