

## IV. School of Architecture and Planning

### ***Officers of Instruction Faculty***

Randall Ott, M.Arch., AIA	<i>Dean, Professor</i>
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>
Patricia Andrasik, M.Arch., AIA, IIDA, LEED AP	<i>Assistant Professor</i>
Julio Bermudez, Ph.D.	<i>Associate Professor</i>
Luis Eduardo Boza, M.Arch.	<i>Associate Professor</i>
Ann Cederna, M.Arch.,AIA	<i>Professor</i>
Hazel R. Edwards, Ph.D.,AICP	<i>Director MCRP Program, Associate 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 Program, Assistant Professor</i>
Charles Hostovsky, Ph.D.	<i>Assistant 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>
Theodore Naos, M.Arch.	<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***

Stanley I. Hallet, M.Arch., FAIA	<i>Professor</i>
Barry D. Yatt, B.Arch., FAIA	<i>Professor</i>
William A. Jelen, M.Arch., AIA	<i>Project Manager; Solar Decathlon, Director; CUAdc</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>
Rafael Vargas, M.Arch	<i>Lecturer</i>

Timothy Bertschinger	Lecturer
Fernando Iribarren	Lecturer
William Bonstra	Lecturer
Jui-Chen (Roger) Chang	Lecturer
George Dove, M.Arch	Lecturer
Karl DuPuy	Lecturer
Hussan Elkhraz, M.Arch	Lecturer
Eric Liebmman	Lecturer
Paul Totten, P.E. (MD, VA), LEED AP	Lecturer

### **Mission**

Our school's mission, *Building Stewardship*, focuses on preparing architects and designers to assume a personal responsibility for the welfare of the world. We stress the interdependence of the words 'building' and 'stewardship.' We focus on how stewardship itself must be designed and constructed, as process and result - how humanity must actively *envision and build* a collective ethos of stewardship. Experienced in the integrative, creative and holistic process of design, architects and planners are uniquely positioned to help forge a compelling contemporary attitude toward stewardship for society at large. In addition, our school focuses on how we must be capable *stewards* when we indeed do physically build. We must care deeply for the impact our projects will have upon past and future human efforts and upon the fragile natural wonder of our globe.

We interpret stewardship broadly: it encompasses understanding the built and natural environments, protecting and preserving these resources. It promotes social justice and respect for the quality of human life for fellow citizens. It treasures the vitalizing potential of aesthetics. This broad humanistic interpretation of stewardship encompasses a variety of aims, including ethical responsibilities, beauty, community involvement, responsible development, preservation of the urban fabric, appropriate technological innovation, and livability. All of these impact our school's attitude toward our traditional tasks of teaching, research and service.

In keeping with The Catholic University of America's mission of service to the Church, to the community and to the nation, our school educates future architects and designers to be engaged and active citizens in their communities and the world at large. To embrace this holistic approach, CUArch emphasizes:

**Design Excellence:** We focus on design methodology as a model for stewardship efforts. We emphasize exemplary design through the exploration of projects at a variety of scales, programs and cultural settings using a balance of theoretical/technical knowledge and hand/digital craft. Our belief is that good design means good stewardship.

**Interdisciplinary Study:** Researchers and practitioners must be good observers and listeners. Our school broadens students' understanding of the world around them and the challenges of stewardship. We engage other campus disciplines in the work of the school, so that students understand architecture's place within a larger, interconnected, and dynamic context.

**Washington, DC, as a Design Laboratory:** Our mission resonates powerfully within our nation's capital. We encourage a hands-on immersion in the reality of stewardship. We embrace our city and its diverse metropolitan area through numerous cooperative projects with governmental agencies, funding organizations, arts and museum groups, and local universities. CUAdc, our design collaborative, provides *pro bono* design services to nonprofit and community groups. For comparative purposes, we augment the experience of Washington with an outstanding array of foreign travel options.

Our belief is that we are all stewards of this earth. Architects and planners have the skills to help forge a true difference in humanity's future.

### **Goals**

Historically, the profession of architecture has placed the highest priority on the artful creation of place, incorporating Vitruvius' three principles. 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 and 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 planners. The goal of the undergraduate program is to provide the student with the knowledge, skills and abilities fundamental to his or her training as a professional, enriched with a broad foundation in the humanities.

### **Degree Programs Pre-Professional Studies**

CUA offers a four-year pre-professional undergraduate Bachelor of Science in Architecture degree. The undergraduate program is

offered to those seeking a foundation in the field of architecture, as preparation for continued education in a professional degree program, or for employment options in fields related to architecture. The undergraduate program in architecture consists of 126 semester credit hours of study, usually accomplished in four years of study.

The undergraduate curriculum introduces the student to the world of architecture in increasingly intensive stages. The first year of study includes a grounding in the liberal arts and introductory courses in design. The remaining years provide an intensive education in the art and science of design.

### **Professional Studies**

CUA offers professional two Master of Architecture degree programs, for those whose undergraduate degree is architecture (the MArch2) and is not in architecture (the MArch3) in architecture.

### **Post- and Non-Professional Studies**

CUA also offers masters degrees in City and Regional Planning (MCRP), Sustainable Design (MSSD), and Architectural Studies (MAS), this last one for those who already have a professional M.Arch and are interested in pursuing further studies. We also offer two certificate programs, one in Real Estate Development and another in Sustainable Design, for working professionals who want to increase their competency without enrolling in a full degree program.

### **Interdisciplinary Studies**

For undergraduates, a joint degree program leading to the degrees of Bachelor of Science in Architecture and Bachelor of Civil Engineering is available to students who want to combine the practice of architecture and engineering. Interested students should contact the School of Architecture and Planning for specific information. For graduate students, joint degrees are available combining either of the M.Arch programs with one of our non-professional degrees.

### **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 professional degrees at three levels: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. From a professional standpoint, all are equal. CUA's professional degree is at the Masters level. NAAB grants eight-year, three-year, or two-year terms of accreditation depending on the extent of a program's conformance with established educational standards. Accreditation teams visit every school to give their recommendation for NAAB approval. CUA was last visited in spring 2015 and received a full eight year accreditation approval.

At CUA, our M.Arch3 program is accredited on its own, while our M.Arch2 is accredited as a package with our pre-professional undergraduate degree program. The pre-professional degree is not, by itself, accredited by NAAB.

### **Location**

CUA's location in Washington, D.C., puts students in touch with unparalleled professional and cultural resources. CUA's spacious campus lies within a 10- minute subway ride or 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 undergraduate program each academic year.

The specialized expertise of these associates of the faculty allow 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 Finnish embassy, the Swiss embassy, the Austrian 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-teacher ratios in studios are kept small to ensure that students receive intensive one-on-one critiques and advising from their critics.

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 the faculty and students, 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, computer lab and input/output room, visual resources center, and fabrication labs, which include wood and metalworking shops, two laser cutter and engraving systems, 3D printers and a three-axis CNC milling machine.

Through the Consortium of Universities of the Washington Metropolitan Area, students may take courses at many of the other outstanding institutions of higher learning in the metropolitan area including Georgetown, George Washington, American, Howard, University of Maryland, and others.

## **Foreign Studies**

The School of Architecture and Planning offers a variety of foreign study options for undergraduate students. In the third year of the undergraduate curriculum students may participate in semester-long programs in Rome and Barcelona, both of which offer 18 credits of a studio and other related courses. Paris serves as the venue for selected fourth year undergraduate students, as well as graduate students. 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. 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, including most of the design studios as well as most of the required technology courses. In addition, the school offers numerous 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.

A component of the Summer Institute is the Jerusalem Studio, composed of upper-level undergraduate and graduate-level students who are taken on an intensive travel program to the ancient city of Jerusalem. After their travel, these students return to the university to complete a project assignment based on their investigations.

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.

### **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.

### **The First Year Experience**

All undergraduate students participate in the First Year Experience, a learning- community-based program that combines living arrangement and advising with a core program in the humanities.

### **English Requirement**

All students take ENG 101, Rhetoric and Composition, but some may be placed in ENG 103 (for International students). In addition, all students take Humanities 101. Students with advanced placement credit in English can place out of either or both of these requirements. Students who receive less than a C- in English will be required to repeat the course.

### **Mathematics Requirement**

The mathematics requirement for the architecture program is one semester of MATH108: Elementary Functions, followed by one semester of MATH111: Calculus for Social and Life Sciences. All incoming freshmen must take the math placement exam. Students testing out of one or both of these classes are allowed to take any CUA course of their choosing in place of MATH 108 and/or MATH 111.

### **Advanced Placement Course Credit**

Students who take Advanced Placement courses as part of their high school curriculum may receive college credit for these courses if they earned a score of 4 or 5 on the AP examination. Official test scores must be submitted to the School of Architecture and Planning before such credit can be given.

### **Transfer Students**

The School of Architecture and Planning accepts transfer students at all levels, depending on the availability of studio space. Transfer students can be accepted for both fall and spring semesters. Credit for previous studies, and placement in our curriculum, will be based on an evaluation of their educational record. Those who have experience in architectural design will receive studio assignments based on a review of their portfolios. Portfolios are required as part of the application process for these students. Undergraduate transfer applicants should have a minimum cumulative grade point average of 2.70. Students interested in transferring to The Catholic University of America should contact the university's Office of Admissions for an application and other pertinent information. Graduate transfer applicants should contact the School of Architecture and Planning directly.

### **Special Program for the Hearing Impaired**

In concert with Gallaudet University, located in Washington, D.C., the School of Architecture and Planning offers a program in architecture for hearing impaired students. Under this program students complete their mathematics and liberal arts and humanities

courses at Gallaudet University, then transfer to The Catholic University of America to complete their architectural studies. Interested students should contact the admissions office of Gallaudet University.

### **Grading and Progression Policies**

1. A student in the School of Architecture and Planning must maintain a cumulative grade point average, GPA, of 2.0 in order to be in good academic standing.
2. A minimum grade of C- is required in all architecture courses. Students will need to repeat any courses in which they receive a grade of D or F, and will not be allowed to continue to any course for which the D or F course serves as a pre-requisite.
3. Progression: The following sequences of courses must be taken in the order listed:
  - Fundamentals: ARPL101 then ARPL102
  - Undergraduate Studio: ARPL201 then ARPL202. Both prior to either 301 or 302. Both prior to either 401 or 402.
  - Graduate Studio: ARCH504 then 501 then 502 then 503. ARCH505/601 may be taken between 502 and 503.
  - Architectural History: ARCH135/635 then 136/636 then 235/735
  - Structures: ARCH321/621 then 322/622 then 421/721
  - Environmental Systems: ARCH209/509 then 358/758 then 457/757

### **Policies Concerning Probation and Dismissal**

1. Students whose semester grade point average, GPA or whose cumulative GPA falls below 2.00 will be placed on academic probation.
2. Students on academic probation cannot enroll in any studio course (ARCH201, 202, 301, 302, 401, 402).
3. Students who remain on academic probation for two consecutive semesters or have been on academic probation for any three semesters will be dismissed from the university.
4. Students who have stopped following the architecture curriculum must transfer to another school within the university within two semesters or be subject to dismissal from the university.
5. Students who fail three courses in a single semester or whose cumulative GPA falls below 1.50 will be dismissed from the university.
6. Other conditions for dismissal are described in the front section of these Announcements.

### **Academic Standards and Requirements for Graduation**

The undergraduate program consists of 126 semester credit hours. In order to advance to third-year design studios, students must have at least a 2.00 cumulative grade point average and an average GPA of 2.00 for the two second-year studios. Students with an average studio GPA of 2.00 or below must retake their last studio and raise their studio GPA above 2.00 before they may advance to the next studio level. A minimum cumulative grade point average of 2.00 in all courses is required for graduation.

### **Other Information**

#### **Student Government and Professional Organizations**

A number of student organizations offer opportunities for students to participate in and act as liaisons to professional organizations. This list currently includes the American Institute of Architecture Students (AIAS), the Construction Specifications Institute (CSI), and the National Organization of Minority Architects (NOMA).

Student representatives also serve as liaisons at faculty meetings, on school committees, and on the University Student Council.

#### **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. If appropriate, students may be reassigned to a different adviser, at the discretion of the associate dean.

Students are required to see their advisers at least once a semester for pre-registration for the next semester's classes, but are encouraged to see their advisers any time regarding their academic program and status, career ambitions, internships, and other issues of concern. Students are responsible for knowing the requirements of their specific programs and for keeping track of their progress in working toward their degrees.

**Program of Studies**

**Bachelors of Science in Architecture Core Program-Suggested Sequence**

**First year**

Course #	Course Title	1st	2nd
ARCH 101	Architecture and Foundations I	3	-
ARCH 102	Architecture and Foundations II	-	3
LC PHIL 201,202	Classical Mind	3	3
LC ENG 101	Rhetoric and Compositions	3	3
LC TRS201	Faith and Seeking Understanding		
HUM 101	Classics in Conversation	3	-
MATH 108,111	Pre-calculus, Calculus	3	3
PHYS 101	20th Century Concepts	-	3
<b>Total</b>		<b>15</b>	<b>15</b>

**Second Year**

Course #	Course Title	1st	2nd
ARCH 201, 202	Architectural Foundations 3, Architectural Design 1	3	6
ARCH 211,212	History of Architecture 1,2	3	3
ARCH 231,232	Introduction to Sustainability, Environmental Design	3	3
LSE	Liberal Study Elective	3	-
SSE	Social Science Elective	3	-
TRS	Religion Elective III	-	3
<b>Total</b>		<b>15</b>	<b>15</b>

**Third Year**

Course #	Course Title	1st	2nd
ARCH 301, 302	Architectural Design 2, 3	6	6
ARCH 311	History of Architecture 3	3	-
ARCH 331	Environmental Design 2	3	-
ARCH 333	Construction 1: assemblies and detailing	3	-
LSE	Liberal Studies Elective	3	-
ARPL 314	Introduction to Architectural Theory	-	3
ARPL	Program Elective	-	3
LSE	Liberal Studies Elective I	3	-
<b>Total</b>		<b>18</b>	<b>15</b>

**Fourth Year**

Course #	Course Title	1st	2nd
ARCH 401, 402	Architectural Design 4, Comprehensive Building Design Studio	6	6
ARCH 441, 442	Structures I, II	3	3
ARCH 421	Digital Construction Documents	3	-
LSE	Liberal Studies Elective	3	-
TRS	Religious Studies Elective	-	3
ARCH 432	Comp. Building Studio Supplement	-	3
	Construction 2: Materials and Methods	-	3
<b>Total</b>		<b>18</b>	<b>15</b>

**Students who transfer to CUA from a community college, college, or university:**

1. Will be considered on a case-by-case basis, and a custom curriculum will be developed for each student.
2. Will be required to take at least 60 credits at CUA, and at least 30 of their last 36 credits.
3. Admission to the program requires a minimum grade point average of 2.70.

**Courses Offered**

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

[2] Social Science elective requirement is three semester hours in one of the following: Anthropology, Economics, Psychology, Political Science, or Sociology.

**Program of Studies**

**Bachelors of Arts in Architecture Core Program-Suggested Sequence**

**Major Requirements in the School of Architecture and Planning Required Core Course- 15 credits**

Course #	Course Title	Credits
ARCH 101	Architecture Foundations I	3
ARCH 102	Architecture Foundations II	3
ARCH 201	Architecture Foundations III	3
ARCH 211	History of Architecture 1	3
ARCH 231	Introduction to Sustainability	3
	<b>Total</b>	<b>15</b>

**Program Electives within School of Architecture and Planning**

**Required 21 credits**

Course #	Course Title	Credits
ARCH 202	Architectural Design 1	6
ARCH 212	History of Architecture 2	3
ARCH 232	Environmental Design	3
ARCH 311	History of Architecture 3	3
ARCH 314	Architecture Theory	3
ARCH 333	Construction 1: Assemblies and Detailing	3
ARCH 583	History of American City Planning	3
ARCH 504	Spirit of Place	3
ARCH 506	Portfolio Design	3
ARCH 515	Beauty and Brains	3
ARCH 516	Oriental Western Landscapes	3
ARCH 524	Practice Law, Real Estate and Planning	3
ARCH 558	Animation in Architecture and Design	
ARCH 559	Emerging Technologies	3

**Liberal Arts and Sciences Distribution Requirements**

Course #	Course Title	1st
LC ENG 101	Rhetoric and Composition	3
LC TRS201	Faith and Seeking Understanding	3

LC PHIL 201,202	Classical Mind, Modern Mind	6
MATH108,111	Pre-calculus, Calculus	6
PHYS 101	20th Century Concepts	3
	3 additional TRS courses	9
	2 additional PHIL courses	6
	3 additional LSE	9
	1 additional SSE	6
	1 LS Language Requirement	3

**Students who transfer to CUA from a community college, college, or university:**

1. Will be considered on a case-by-case basis, and a custom curriculum will be developed for each student.
2. Will be required to take at least 60 credits at CUA, and at least 30 of their last 36 credits.
3. Admission to the program requires a minimum grade point average of 2.70.

**Courses Offered**

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

[2] Social Science elective requirement is three semester hours in one of the following: Anthropology, Economics, Psychology, Political Science, or Sociology.

**Program of Studies**

**Bachelors of Science in City and Regional Studies Core Program-Suggested Sequence**

**First Year**

Course #	Course Title	1st	2nd
LC ENG 101	Rhetoric and Composition	3	3
LC TRS 201	Faith and Seeking Understanding		
ARCH 101	Architecture Foundations I	3	-
ARCH 102	Architecture Foundations II	-	3
LC PHIL 201,202	Classical Mind	3	3
HUM 101	Classics in Conversation	3	-
MATH 108, 114	Pre-calculus, Probability and Statistics	3	3
PHYS 101	20th Century Concepts	-	3
<b>Total</b>		<b>15</b>	<b>15</b>

**Second Year**

Course #	Course Title	1st	2nd
ECON 101	Principles of Macroeconomics	3	-
SOC 202	Research Methods 3	3	3
ARCH 231	Introduction to Sustainability	3	-
LSE	Liberal Study Elective	3	-
TRS	Religious Studies Elective	3	-
ARCH	Introduction to Contemporary Urban Planning		3
ARCH	Understanding Urban Complexities		3
ECON 102	Principles of Microeconomics		3
SSS 326	Principles of Microeconomics		3
TRS	Religious Studies Elective	3	-
<b>Total</b>		<b>15</b>	<b>15</b>



**Third Year**

Course #	Course Title	1st	2nd
ARCH 586 c	Introduction to GIS	3	-
ARCH	Urban Lab	3	-
POL	Advisor Approved	3	-
LSE	Liberal Studies Elective	3	-
ARCH	Urban Lab		3
SOC 101	Global Social Problems and Justice (or appr'd equiv.)	-	3
MGT 32	Management: Theory and Practice	-	3
	Free Elective 1,2,3	3	6
<b>Total</b>		<b>15</b>	<b>18</b>

**Fourth Year**

Course #	Course Title	1st	2nd
ARCH	Urban Lab 3`	3	
SOC 201	The Human Condition: Culture, Society, and Personality (or appr'd equiv.)		3
LSE	Liberal Studies Elective	3	-
SSE	Social Science Elective	3	
ARCH	Capstone City and Regional Studies Project	-	3
ARCH 586d	Politics and the City (or appr'd equiv.)	-	3
MGT 320	Leadership and Organization		3
	Free Elective 4,5	3	3
<b>Total</b>		<b>18</b>	<b>15</b>

**Students who transfer to CUA from a community college, college, or university:**

1. Will be considered on a case-by-case basis, and a custom curriculum will be developed for each student.
2. Will be required to take at least 60 credits at CUA, and at least 30 of their last 36 credits.
3. Admission to the program requires a minimum grade point average of 2.70.

**Courses Offered**

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

[2] Social Science elective requirement is three semester hours in one of the following: Anthropology, Economics, Psychology, Political Science, or Sociology.

**Program of Studies**

**Bachelors of Science in Environmental Studies**

**Core Program-Suggested Sequence**

**First Year**

Course #	Course Title	1st	2nd
ARCH 101	Architecture Foundations I	3	-
ARCH 102	Architecture Foundations II	-	3
LC PHIL 201, 202	Classical Mind	3	3
LC ENG 101, LC TRS 201	Rhetoric and Composition, Faith and Seeking Understanding	3	3
HUM 101	Classics in Conversation	3	-
MATH 108, 111	Pre-calculus, Calculus	3	3
PHYS 101	20th Century Concepts	-	3
<b>Total</b>		<b>18</b>	<b>15</b>

**Second Year**

Course #	Course Title	1st	2nd
ARCH 201	Architectural Foundations 3	3	-
ARCH 231	Introduction to Sustainability	3	-
ARCH	History of Architectural Technology	3	-
SSE	Social Science Elective	3	-
TRS	Religion Elective III	3	-
ARCH	Environmental Studies Workshop	-	3
ARCH	Systems Thinking	-	3
ARCH 232	Environmental Design	-	3
TRS	Religion Elective III	-	3
	Free Elective	-	3
<b>Total</b>		<b>15</b>	<b>15</b>

**Third Year**

Course #	Course Title	1st	2nd
ARCH	Building and Construction and Waste	3	-
ARCH	Water Use and Infrastructure	3	-
BIO 114	Field Biology for Non-Science Majors	3	-
LSE	Liberal Studies Elective		
	Free Elective	3	6
ARCH	Environmental Studies Workshop	-	3
ARCH 538	LEED lab	-	3
LSE	Liberal Studies Elective	3	-
<b>Total</b>		<b>15</b>	<b>15</b>

**Fourth Year**

Course #	Course Title	1st	2nd
ARCH	Environmental Studies Workshop	3	-
ARCH	Environmental Assessment of the Built Environment	3	-
ENG 314	Introduction to Alternative Energy	3	-
SSE	Social Science Elective	3	-
ARCH	Capstone Environmental Studies Project	-	3
ARCH	Sustainable Materials	-	3
EE 459	Introduction to Wind Energy Technology	-	3
	Free Elective	-	3
<b>Total</b>		<b>15</b>	<b>15</b>

**Program of Studies**

**Undergraduate Minor in Architectural Studies**

**Minor Requirements in the School of Architecture and Planning**

Course #	Course Title	1st
ARCH 101	Architecture Foundations I	3
ARCH 211, 212	History of Architecture 1, 2	6
<b>Total</b>		<b>15</b>

**Program Electives (3)**

Course #	Course Title	1st
ARCH 102	Architectural Foundations II	3
ARCH 231	Introduction to Sustainability	3
ARCH 311	History of Architecture 3	3
ARPL 314	Introduction to Architectural Theory	3
ARPL	Approved by the Advisor	3

Students must complete REQUIREMENTS prior to enrolling in any ARCH elective

**Program of Studies**

**Undergraduate Minor Sustainable Design**

**Minor Requirements in the School of Architecture and Planning**

**CURRICULUM**

To qualify for this minor students must take one course in each of the categories A to D listed below as well as two electives from the approved list (category E).

Advising will be undertaken by Prof. [Chris Grech](#), School of Architecture & Planning and [Patricia Galindo](#), School of Arts and Sciences.

One course in each category:

- A. Course in **ethics** 3 credit hours
- B. Course in **science and technology** 3 credit hours
- C. Course in social sciences 3 credit hours
- D. Course in **sustainable operations and practices\*** 3 credit hours
- E. Two electives from a pre-approved list 6 credit hours

These electives can be selected from any of the courses listed in the categories A and D above.

**Total:** 18 credit hours

\* Apart from the courses listed in this category students may undertake an approved internship.

**Courses Offered**

A full listing of undergraduate courses offered by the School of Engineering can be found below. Consult [Cardinal Station](#) for additional information about courses and to determine course offerings by semester.

ARPL	101	Architectural Foundations I: Introduction to Architecture
ARPL	102	Architectural Foundations II: Design Tools
ARPL	201	Architectural Foundations III: Design Analysis & Synthesis
ARPL	202	Architectural Design I
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ARPL	302	Architectural Design II
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