

**MASTER OF ARCHITECTURE/MASTER OF REAL ESTATE DEVELOPMENT**  
**ARDV – Path B – M ARCH (Path B) + MRED**  
**Curriculum**

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The curriculum for the ARDV program is designed to provide an intense exposure to the allied disciplines of architecture and real estate development. The degree-track minimizes the amount of time required to complete dual Masters degrees in architecture and real estate development.

**YEAR 1**

**SEMESTER 1 Fall**

ARCH	404	Graduate Studio I	6
ARCH	462	Building Methods and Materials	3
ARCH	443	Visual Communication	3
ARCH	426	History of World Architecture II	3
RDEV	688K	<i>Tax and Accounting for Developers</i>	3
<b>Semester Total</b>			<b>18</b>

**SEMESTER 2 Spring**

ARCH	405	Graduate Studio II	6
ARCH	463	Sustainable Systems	3
ARCH	445	Visual Analysis	3
ARCH	425	History of World Architecture I	3
<b>Semester Total</b>			<b>15</b>

*Recommended study abroad and/or architectural internship*

**SUMMER TERM\***

RDEV	688xx	Cognate in Construction Methods/Materials	3
<b>Summer Session</b>			<b>3</b>

**YEAR 2**

**SEMESTER 3 Fall**

ARCH	406	Graduate Studio III	6
ARCH	464	Structures I	3
ARCH	466	Building Systems	3
ARCH	460	Site Analysis and Design	3
<b>Semester Total</b>			<b>15</b>

**SEMESTER 4 Spring**

ARCH	407	Graduate Studio IV	6
ARCH	465	Structures II	3
ARCH	654	Urban Development and Design Theory	3
ARCH	6xx	Architecture Seminar	3
<b>Semester Total</b>			<b>15</b>

*Review of Provisional Graduate Status after Semester 4*  
*Recommended BIM Skills Course during Summer Session*

**SUMMER TERM**

RDEV	688xx	Cognate in RED Operations/Management	3
<b>Summer Session</b>			<b>3</b>



**YEAR 3**

**SEMESTER 5 Fall**

ARCH	600	Comprehensive Design Studio	6
ARCH	611	Advanced Architecture Technology	3
RDEV	688T	Introduction to Principles, Policy and Practice	3
RDEV	688Z	Introduction to RED Finance	3

**Semester Total 15**

**WINTER TERM\***

RDEV	688xx	Elective	3
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**Winter Term Total 3**

**SEMESTER 6 Spring**

ARCH	601	Topical Design Studio	6
ARCH	461	Sustainable Architecture	3
RDEV	688A	Development Law	3
RDEV	630	Fundamentals of Finance and Development	3

**Semester Total 15**

**YEAR 4**

**SEMESTER 7 Fall**

ARCH	797	Thesis Proseminar	3
ARCH	770	Professional Practice	3
RDEV	688xx	Cognate in Market Analysis/Valuation	3
RDEV	688xx	Cognate in Planning and Entitlements	3
ARCH	6xx	Architecture Elective	3

**Semester Total 15**

**SEMESTER 8 Spring**

ARCH	799	Master's Thesis Research	6
ARCH	798	Thesis in Architecture	3
RDEV	688I	Capstone (Feasibility Analysis of Thesis)	3

**Semester Total 12**

**Total Credit Hours Required for ARDV Degree 114**

\* The RDEV curriculum affords flexibility in course requirements and sequencing. Students work closely with an RDEV advisor to establish an approved program, which will be documented in an approved program form.

**GRADE POINT AVERAGE IN MAJOR POLICY:**

The 3.0 GPA in major policy requires all graduate students matriculating in Fall 2012 to earn a 3.0 grade point average in their major, minor, and/or certificate requirements. With the new plus/minus policy, the minimum grade for most major courses is a B-, now calculated as a 2.7. It is important that graduate students clearly understand what courses make up major, minor and certificate requirements, and that the cumulative GPA for those courses must be at least 3.0.

**RECOMMENDED INTERNSHIPS:**

At various points in a student's education practical experience gained through internship complements and provides insight into formal education. The Program provides an annual Career Fair that enables students gain contacts with major firms in the Washington-Baltimore area as well as firms with numerous locations nationally and internationally. Many students arrange internships over the summer and/or winter recess. While the Program does not provide academic credit for work in a professional context, the experiences gained therein are invaluable to a student's development.



### RECOMMENDED STUDY ABROAD:

The Architecture Program offers several intensive study abroad programs during the winter term and over the summer session. The programs are generally three or six weeks in duration and are lead by faculty members who have proven expertise in locales in which the programs are located. Past programs have taken students to France, India, Italy, North Africa, Peru, Russia, Turkey, South Africa, and the Yucatan. Students study the historical and contemporary architecture, urbanism, and cultures of the nations visited.

### 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 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture 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.

The University of Maryland School of Architecture, Planning & Preservation offers the following NAAB-accredited degree programs:

- M.Arch (pre-professional degree + 60 graduate credits)
- M.Arch (non-pre-professional degree + 109 credits)

Next accreditation visit for both programs: 2017

Current information about the University of Maryland's Accreditation Status can be found at:

<http://arch.umd.edu/arch/naab-accreditation>

Additional information about NAAB can be found at: [www.naab.org](http://www.naab.org)

### QUALIFYING FOR ADVANCED STANDING:

A condition of admission with advanced standing in the Architecture Program is documentation to verify completion of National Architectural Accreditation Board (NAAB) Student Performance Criteria (SPC) that applicants have satisfied in prior coursework at their undergraduate institution. This requirement is now a condition of accreditation for all NAAB accredited architecture programs. The relevant text from the NAAB 2014 Conditions for Accreditation below:

#### PART TWO (II): SECTION 3—EVALUATION OF PREPARATORY EDUCATION

The program must demonstrate that it has a thorough and equitable process for evaluating the preparatory or pre-professional education of individuals admitted to the NAAB-accredited degree program.

- Programs must document their processes for evaluating a student's prior academic course work related to satisfying NAAB student performance criteria when a student is admitted to the professional degree program.
- In the event a program relies on the preparatory educational experience to ensure that admitted students have met certain SPC, the program must demonstrate it has established standards for ensuring these SPC are met and for determining whether any gaps exist.
- The program must demonstrate that the evaluation of baccalaureate-degree or associate-degree content is clearly articulated in the admissions process, and that the evaluation process and its implications for the length of a professional degree program can be understood by a candidate before accepting the offer of admission. See also Condition II.4.6.

[NOTE: A review of course titles and descriptions in and of itself is not considered sufficient for this activity.]

Applicants for the Master of Architecture with Advanced Standing shall have completed the following coursework as part of their undergraduate degree in architecture equivalent to:

- 4 - Architectural Design Studios (6 credits each)
- 1 - Building Materials and Assemblies course (3 credits min.)



- 2 – Structural Systems Courses (3 credits each min.)
- 1 – Environmental Systems Course (3 credits min.)
- 1 – Sustainable Systems Course (3 credits min.)
- 2 – History of World Architecture Courses (3 credits each min.)

The course work must satisfy National Architectural Accrediting Board Student Performance criteria, which are either met or partially met in the University of Maryland's Bachelor of Science Program and serve as pre-requisites for admission to the M ARCH program with advanced standing. The student shall have received a grade no less than B (3.0) in the courses in question. The NAAB SPC required for advanced standing consideration are:

A.1	Professional Communication Skills**	B.1	Pre-Design*
A.2	Design Thinking Skills**	B.2	Site Design*
A.3	Investigative Skills*	B.3.	Codes and Regulations*
A.4	Architectural Design Skills**	B.5	Structural Systems*
A.5	Ordering Systems *	B.6	Environmental Systems*
A.6	Use of Precedents**	B.8	Building Materials and Assemblies*
A.7	History and Global Culture**	B.9	Building Service Systems*
A.8	Cultural Diversity and Social Equity **		

\*Indicates criterion is partially met in the pre-professional degree

\*\*Indicates that criterion is met in the pre-professional degree

#### **Supporting Materials Required for Verification:**

Final determination of an applicant's eligibility for advanced standing in the M ARCH program will be made after he/she has been offered admission. Candidates will be informed of their eligibility to apply for advanced standing in the letter offering admission. Candidates who desire to be considered for advanced standing will be required to submit additional evidence to demonstrate that they satisfied required NAAB SPC to a satisfactory extent during the course of their undergraduate degree program. The following materials will be used in the evaluation process:

- The portfolio of academic work from architectural design studios (submitted as part of the regular application process).
- Course syllabi for each course taken during the applicant's undergraduate education in the following areas:
  - Structures courses
  - Building methods and materials courses
  - Mechanical, electrical and plumbing courses
  - Sustainable systems courses
  - Design studios
  - History / theory courses
  - Professional practice courses (if any)
  - Any other course for which you satisfied an NAAB SPC
- Assignments, projects, examinations, tests, and quizzes that serve as evidence of successful completion of the SPC from the above courses.

If deficiencies in SPC are found to exist, the applicant's curriculum will be modified to include additional coursework to satisfy the NAAB SPC requirements.



**ARDV – Path B – MASTER OF ARCHITECTURE (Path B)/MASTER OF REAL ESTATE DEVELOPMENT DUAL DEGREE**

**Prerequisite: B.A. or B.S Degree**

All Architecture courses shown are approved as electives for the Real Estate Development degree and all Real Estate Development courses shown are approved as electives for the Architecture degree.

REQUIRED COURSEWORK IN ARCHITECTURE			Credits
ARCH	404	Graduate Architectural Design Studio I	6
ARCH	405	Graduate Architectural Design Studio II	6
ARCH	406	Graduate Architectural Design Studio III	6
ARCH	407	Graduate Architectural Design Studio IV	6
ARCH	425	History of World Architecture I	3
ARCH	426	History of World Architecture II	3
ARCH	443	Visual Communication	3
ARCH	445	Visual Analysis	3
ARCH	460	Site Analysis and Design	3
ARCH	462	Building Methods and Materials	3
ARCH	463	Sustainable Systems	3
ARCH	464	Structures I	3
ARCH	465	Structures II	3
ARCH	466	Building Systems	3
ARCH	600	Integrated Design Studio	6
ARCH	601	Topical Design Studio	6
ARCH	611	Advanced Technology	3
ARCH	654	Urban Development and Design Theory	3
ARCH	770	Professional Practice	3
ARCH	797	Thesis Proseminar	3
ARCH	798	Thesis	3
ARCH	799	Thesis Research	6
ARCH	6xx	Architecture Elective	3
ARCH	6xx	Architecture Seminar	3
<b>Minimum Credit Hours in the M ARCH Degree</b>			<b>93</b>

REQUIRED COURSEWORK IN REAL ESTATE DEVELOPMENT			Credits
RDEV	688T	Introduction to Principles, Practice and Policy*	3
RDEV	688Z	Introduction to Real Estate Finance*	3
RDEV	688K	Tax and Accounting for Real Estate Developers*	3
RDEV	688A	Development Law, Process and Ethics	3
RDEV	630	Fundamentals of RED Finance and Investments	3
RDEV	688xx	Cognate in Planning and Entitlements	3
RDEV	688xx	Cognate in Construction Management and Methods	3
RDEV	688xx	Cognate in RED Operations and Management	3
RDEV	688xx	Cognate in Market Analysis and Valuation	3
RDEV	688I	Capstone (feasibility analysis of architecture thesis)	3
RDEV	xxx	Elective	3
<b>Minimum Credit Hours in the MRED Degree</b>			<b>33</b>

**Minimum Credit Hours in the ARDV Dual Degree 126**