

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY  
College of Architecture and Urban Studies  
School of Architecture + Design  
Bachelor of Architecture  
For students entering under UG Catalog 2022-2023

<b>I. Pathways to General Education</b>	<b>45-47 credits required (15 from in-major required courses)</b>
<b>II. Architecture Degree Core Courses</b>	<b>43 credits required</b>
<b>III. Major Required Courses</b>	<b>55 credits required</b>
<b>IV. Professional Elective Courses</b>	<b>6 credits required</b>
<b>V. Free Elective Courses</b>	<b>9-11 credits required</b>
<b>TOTAL CREDIT HOURS</b>	<b>160 credits required</b>

**Departmental Policies**

**GPA Requirements**

From the first semester of the first year onward [1015-4516] all students must earn a grade of "C-" or above in each semester of their architecture design lab in order to proceed to the next lab in the five year sequence with the additional requirement that students must earn a minimum of a C in the 4th year integrative design lab (ARCH 4014). A minimum grade of "C-" is required for graduation.

**Satisfactory Progress Toward Degree**

In addition to University requirements, upon completion of the second year in the program, students must have completed ARCH 1015-1016, ARCH 2015-2016, ARCH 2034, ESM 3704, ARCH 4075, ARCH 3115, with a minimum in-major grade point average of 2.00 or above.

**Restricted Major Requirements**

Restricted Major Requirements: Students who make application to Architecture through the internal transfer process must meet the following requirements prior to entering the major.

- A) Min 2.5 GPA in all courses prior to entering the Summer Design Lab
- B) Application to Summer Design Lab; Interview for Summer Design Lab
- C) Faculty Review of Summer Work and a grade of C or better in Summer Design Lab for admission to Fall 2nd Yr Lab

**I. Pathways to General Education** **45-47 credits required (15 from In-major required courses)**

<b>Concept 1 - Discourse</b>	<b>9 credits required</b>
<b>1f - Foundational (6 credits)</b>	
ENGL 1105 First-year Writing	_____ <b>3 credits required</b>
ENGL 1106 First-year Writing	_____ <b>3 credits required</b>
<b>1a - Advanced/Applied (3 credits)</b>	
ARCH 4114 Ideas, Concepts, and Representations of Architecture (Pre: ARCH 3015, ARCH 3116)	_____ <b>3 credits required (In Major Required Course)</b>
<b>Concept 2 - Critical Thinking in the Humanities</b>	<b>6 credits required</b>
*ARCH 3115 Histories of Architecture (Pre: ARCH 1015)	_____ <b>3 credits required (In Major Required Course)</b>
*ARCH 3116 Histories of Architecture (Pre: ARCH 3115)	_____ <b>3 credits required (In Major Required Course)</b>
<b>Concept 3 - Reasoning in the Social Sciences</b>	<b>6 credits required</b>
Pathways Course	_____ <b>3 credits required</b>
Pathways Course	_____ <b>3 credits required</b>
<b>Concept 4 - Reasoning in the Natural Sciences</b>	<b>6 credits required</b>
Pathways Course	_____ <b>3 credits required</b>
Pathways Course	_____ <b>3 credits required</b>
<b>Concept 5 - Quantitative and Computational Thinking</b>	<b>9-11 credits required</b>
<b>5f - Foundational (6 credits)</b>	
MATH 1535 Geometry Mathematics of Design (3 cr) or MATH 1225 Calculus of a Single Variable (4 cr)	_____ <b>3-4 credits required</b>
MATH 1536 Geometry Mathematics of Design (3 cr) or MATH 1226 Calculus of a Single Variable (4 cr)	_____ <b>3-4 credits required</b>
<b>5a - Advanced/Applied (3 credits)</b>	
Advanced/Applied Comp. Pathways Course	_____ <b>3 credits required</b>
<b>Concept 6 - Critique and Practice in Design and the Arts</b>	<b>6 credits required</b>
6a *ARCH 4514 Thesis Inquiry (Pre: ARCH 4004. Co: ARCH 4515)	_____ <b>3 credits required (In Major Required Course)(see GPA req., see also note #6)</b>
6d *ARCH 4524 Thesis Documentation (Pre: ARCH 4514, 4515. Co: ARCH 4516)	_____ <b>3 credits required (In Major Required Course)(see GPA req., see also note #6)</b>
<b>Concept 7 - Critical Analysis of Identity &amp; Equity in the US</b>	<b>3 credits required</b>
Pathways Course	_____ <b>3 (see note #5)</b>

**II. Architecture Degree Core Courses** **43 credits required**

*ARCH 2015 Architecture II (Pre: ARCH 1016)	_____ <b>7 credits (see GPA req.)</b>
*ARCH 2016 Architecture II (Pre: ARCH 2015)	_____ <b>7 credits (see GPA req.)</b>
*ARCH 3015 Architecture III (Pre: ARCH 2016)	_____ <b>7 credits (see GPA req.)</b>
*ARCH 3016 Architecture III (Pre: ARCH 3015)	_____ <b>7 credits (see GPA req.)</b>
*ARCH 4004 Architecture IV Option lab (Pre: ARCH 3016)	_____ <b>7 credits (see GPA req.)</b>
*ARCH 4014 Architecture IV Integrated (Pre: ARCH 3016, ARCH 3054)	_____ <b>8 credits (see GPA req.)</b>

III. Major Required Courses	55 credits required
ARCH 1015 Foundation Design Laboratory	_____ 6 credits (see GPA req.)
ARCH 1016 Foundation Design Laboratory	_____ 6 credits (see GPA req.)
ESM 3704 Basic Principles of Structure	_____ 3 credits
*ARCH 4075 Building Structures (Pre: ESM 3704)	_____ 3 credits
*ARCH 4076 Building Structures (Pre: ESM 3704)	_____ 3 credits
*ARCH 2034 Art of Building (Pre: ARCH 2044)	_____ 2 credits
*ARCH 3065 Building Assemblies (Pre: ARCH 2016. Co: ARCH 3015)	_____ 3 credits
*ARCH 3066 Building Assemblies (Coreq. ARCH 3016, ARCH 3054)	_____ 3 credits
*ARCH 3054 Building Analysis (Pre: ARCH 3015. Co: ARCH 3016, ARCH 3046)	_____ 2 credits
ARCH 4055 Environment and Building Systems	_____ 3 credits
ARCH 4056 Environment and Building Systems	_____ 3 credits
ARCH 4044 (LAR 4124) Professional Practice	_____ 3 credits
*ARCH 4034 Building Cities (Pre: ARCH 3015)	_____ 3 credits
*ARCH 4515 Architecture V (Pre: ARCH 4004, 4014. Co: ARCH 4514)	_____ 6 credits (see GPA req.)
*ARCH 4516 Architecture V (Pre: ARCH 4514, 4515. Co: ARCH 4524)	_____ 6 credits (see GPA req.)
<b>IV. Professional Elective Courses</b>	
	<b>6 credits required</b>
COURSE xxxx Professional Elective	_____ 3 credits (see note #1)
COURSE xxxx Professional Elective	_____ 3 credits (see note #1)
<b>V. Free Elective Courses</b>	
	<b>9-11 credits required</b>
COURSE xxxx Free Elective	_____ 9-11 credits (see note #2)
<b>TOTAL CREDIT HOURS</b>	
	<b>160 credits required</b>

**Foreign Language Requirements**

Foreign Language Requirement: students who did not complete 2 units of a foreign language in high school must earn 6 credits of a college foreign language, such credits to be in addition to those normally required for graduation.

**Notes**

**\*Prerequisite/Corequisite:** Some courses listed on this checksheet may have prerequisites and/or corequisites; please consult the University Course Catalog or check with your advisor.

1. Professional elective requirements may be satisfied with courses in ARCH, ART, BC, CAUS, IDS, ITDS, LAR, SPIA, and UAP at the undergraduate level, if NOT listed as required for the degree. Students choosing the professional electives which are repeatable for credit [Arch 3514, 4214, 4414] may repeat these courses ONLY if they are listed with different subtopic titles; duplication of topics will NOT be allowed. Review the Undergraduate Course Catalog for the maximum number of credit hours allowed for each course. For students choosing to take courses from the categories listed below, no more than one course in each of the three ARCH subject areas of "Media & Methods," "Technology," and "History & Theory" can be counted towards their Professional Elective requirements.

Subject: "Media & Methods" consist of the following courses: ARCH 3514: Design-Related Media; ARCH 4164: Computer Applications in Design; ARCH 4304: Topics in Design Methods.

Subject: "Technology" consist of the following courses: ARCH 4144: Advanced Building Structures I; ARCH 4154: Advanced Building Structures II; ARCH 4204: Urban Technology and Architecture; ARCH 4414: Advanced Environment Building Systems.

Subject: "History & Theory" consists of the following courses: ARCH 4214: Topics in Architecture History and Theory and ARCH 4654: Urbanization and Urbanism in Europe.

The following courses are not approved for the professional elective requirement: Independent Study 2974, 4974; Special Study 2984, 4984; Undergraduate Research 4994

2. It is recommended that free elective credits be taken at the 2000-level and higher.
3. A minimum 2.0 GPA in Architecture courses is required for graduation.
4. A minimum overall 2.0 GPA is required for graduation.
5. Critical Analysis of Identity & Equity in the US may be double counted with another core outcome.
6. ARCH 4514 and ARCH 4524 each satisfy 3cr. Arts / 3 cr. Design under Pathways to Gen. Ed. Concept 6.