**VIRGINIA POLYTECHNIC INSTITUTE AND STATE**
**UNIVERSITY College of Architecture and Urban Studies**
**School of Architecture + Design**
**Bachelor of Architecture**

**For Students Graduating in Calendar Year 2022 and Date of Entry**
**under UG Catalog 2020-21**

| | |
|---|---|
| **I. Pathways to General Education** | **45 C required (12 from in-major required courses)** |
| **II. Architecture Degree Core Courses** | **38 C required** |
| **III. Major Required Courses** | **57 C required** |
| **IV. Professional Elective Courses** | **6 C required** |
| **V. Free Elective Courses** | **14 C required** |
| **TOTAL CREDIT HOURS** | **160 C required** |

---

**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. 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, ARCH 2044, 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 ARCH 1015.
B) Application to Summer Qualifying Design Lab; Interview for Summer Qualifying
C) Faculty Review of Summer Work and 3.5 min in Lab for admission to 2nd Yr Lab
D) Faculty Review of Summer Work and < 3.5 and >2.0 min in Lab for admission to

---

| **I. Pathways to General Education** | **45 C required (12 from In-major required courses)** |
|---|---|

**#1 Discourse** — **9 C required**

| | | |
|---|---|---|
| ENGL 1105 First-year Writing | _____ | 3 |
| ENGL 1106 First-year Writing | _____ | 3 |
| Advanced/Applied Discourse Pathways Course | _____ | 3 |

**#2 Critical Thinking in the Humanities** — **6 C required**

| | | |
|---|---|---|
| *ARCH 3115 Histories of Architecture | _____ | 3 (In Major Required Course) |
| *ARCH 3116 Histories of Architecture | _____ | 3 (In Major Required Course) |

**#3 Reasoning in the Social Sciences** — **6 C required**

| | | |
|---|---|---|
| Pathways Course | _____ | 3 |
| Pathways Course | _____ | 3 |

**#4 Reasoning in the Natural Sciences** — **6 C required**

| | | |
|---|---|---|
| Pathways Course | _____ | 3 |
| Pathways Course | _____ | 3 |

**#5 Quantitative and Computational Thinking** — **9 C required**

| | | |
|---|---|---|
| MATH 1535 Geometry & Mathematics of Design | _____ | 3 |
| MATH 1536 Geometry & Mathematics of Design | _____ | 3 |
| Advanced/Applied Comp. Pathways Course | _____ | 3 |

**#6 Critique and Practice in Design and the Arts** — **6 C required**

| | | |
|---|---|---|
| *ARCH 4514 Thesis Inquiry | _____ | 3 (In Major Required Course)(see GPA req., see also note #8) |
| *ARCH 4524 Thesis Documentation | _____ | 3 (In Major Required Course)(see GPA req., see also note #8) |

**#7 Critical Analysis of Identity & Equity in the US** — **3 C required**

| | | |
|---|---|---|
| Pathways Course | _____ | 3 (see note #7) |

---

| **II. Architecture Degree Core Courses** | **38 C required** |
|---|---|

| | | |
|---|---|---|
| *ARCH 2015 Architecture II | _____ | 6 (see GPA req.) |
| *ARCH 2016 Architecture II | _____ | 6 (see GPA req.) |
| *ARCH 3015 Architecture III | _____ | 6 (see GPA req.) |
| *ARCH 3016 Architecture III | _____ | 6 (see GPA req.) |
| *ARCH 4015 Architecture IV (Integrated or Option lab) | _____ | 7 (see GPA req.) |
| *ARCH 4016 Architecture IV (Integrated or Option lab) | _____ | 7 (see GPA req.) |

<table>
<tr><td colspan="2"><b>III. Major Required Courses</b></td><td><b>57 C required</b></td></tr>
</table>

| Course | Credits |
|---|---|
| ARCH 1015 Foundation Design Laboratory | 6 (see GPA req.) |
| ARCH 1016 Foundation Design Laboratory | 6 (see GPA req.) |
| ESM 3704 Basic Principles of Structure | 3 |
| *ARCH 4075 Building Structures | 3 |
| *ARCH 4076 Building Structures | 3 |
| *ARCH 2044 Building Materials | 2 |
| *ARCH 2034 Art of Building | 2 |
| *ARCH 3045 Building Assemblies | 2 |
| *ARCH 3046 Building Assemblies | 2 |
| *ARCH 3054 Building Analysis | 2 |
| *ARCH 4055 Environment and Building Systems | 3 |
| *ARCH 4056 Environment and Building Systems | 3 |
| *ARCH 4044 (LAR 4124) Professional Practice | 3 |
| *ARCH 4034 Building Cities | 3 |
| *ARCH 4114 Ideas, Concepts, and Representations of Architecture | 2 |
| *ARCH 4515 Architecture V | 6 (see GPA req.) |
| *ARCH 4516 Architecture V | 6 (see GPA req.) |

**IV. Professional Elective Courses** — **6 C required**

| Course | Credits |
|---|---|
| COURSE xxxx Professional Elective | 3 (see note #2) |
| COURSE xxxx Professional Elective | 3 (see note #2) |

**V. Free Elective Courses** — **14 C required**

| Course | Credits |
|---|---|
| COURSE xxxx Free Elective | 3 (see note #3) |
| COURSE xxxx Free Elective | 3 (see note #3) |
| COURSE xxxx Free Elective | 3 (see note #3) |
| COURSE xxxx Free Elective | 3 (see note #3) |
| COURSE xxxx Free Elective | 2 (see note #3) |

**TOTAL CREDIT HOURS** — **160 C required**

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

2. Professional elective requirements may be satisfied with courses in ARCH, ART, BC, 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. To fulfill the degree requirement of at least 6 credits earned through professional elective courses, no more than one course in each of the three ARCH subject areas of "Media & Methods," "Technology," and "History & Theory" can be counted towards degree 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

3. It is recommended that at least 14 free elective credits be taken at the 2000-level and higher.

4. A minimum 2.0 GPA in Architecture courses is required for graduation.

5. A minimum overall 2.0 GPA is required for graduation.

6. In order to graduate with a Bachelor of Architecture degree and to fulfill professional degree requirements mandated by the NAAB, a total of 45 credits in non-architecture courses are required. Non-architecture courses are defined as courses with a course designator other than ARCH (Architecture).

7. Critical Analysis of Identity & Equity in the US may be double counted with another core outcome.

8. ARCH 4514 and ARCH 4524 each satisfy 3cr. Arts / 3 cr. Design under Pathways to Gen. Ed. #6.