

INDUSTRIAL DESIGN MAJOR

Program Curriculum

Code	Title	Credits
Degree Core Requirements		
IDS 2015	Industrial Design Laboratory II	5
IDS 2016	Industrial Design Laboratory II	6
IDS 3015	Industrial Design Laboratory III	6
IDS 3016	Industrial Design Laboratory III	6
IDS 4015	Industrial Design Laboratory IV	6
IDS 4016	Industrial Design Laboratory IV	6
Subtotal		35
Major Requirements		
ARCH 1015	Foundation Design Laboratory	6
ARCH 1016	Foundation Design Laboratory	6
IDS 2034	Design Visualization	3
IDS 2044	Human Factors	3
IDS 2304	Computer Aided Industrial Design	3
IDS 3124	Materials and Processes	3
IDS 3514	Design Research	3
IDS 3900	Bridge Experience ¹	0
IDS 4044	Professional Practice and Entrepreneurship	2
Select six credits from the following:		6
IDS 3204	Topics in Professional Development ²	
IDS 3224	Topics in Design Competencies ²	
IDS 3234	Topics in Design Theory ²	
Subtotal		35
Professional Elective Courses		
Complete 9 credit hours of 3XXX-4XXX Professional Electives ³		9
Subtotal		9
Pathways to General Education		
<i>Pathways Concept 1 - Discourse</i>		
ENGL 1105	First-Year Writing	3
ENGL 1106	First-Year Writing	3
Select three credits in Pathway 1a (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G01A)		3
<i>Pathways Concept 2 - Critical Thinking in the Humanities</i>		
ART 2385	Survey of the History of Western Art	3
ART 2386	Survey of the History of Western Art	3
<i>Pathways Concept 3 - Reasoning in the Social Sciences</i>		
Select six credits in Pathway 3 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G03)		6
<i>Pathways Concept 4 - Reasoning in the Natural Sciences</i>		
Select six credits in Pathway 4 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G04)		6
<i>Pathways Concept 5 - Quantitative and Computational Thinking</i>		
Select one of the following:		6
MATH 1014 & MATH 1025	Precalculus with Transcendental Functions and Elementary Calculus	
MATH 1025 & MATH 1026	Elementary Calculus and Elementary Calculus	

MATH 1535 Geometry and Mathematics of Design
& MATH 1536 and Geometry and Mathematics of Design

Select three credits in Pathway 5a (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G05A)		3
<i>Pathways Concept 6 - Critique and Practice in Design and the Arts</i>		
IDS 2114	History of Industrial Design	3
IDS 2124	History of Modern Industrial Designers	3
<i>Pathways Concept 7 - Critical Analysis of Identity and Equity in the United States</i>		
Select three credits in Pathway 7 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G07)		3
Subtotal		45
Total Credits		124

Footnotes

1. The Bridge Experience is the application of academic knowledge and skills to a work-based experience aligned with post-graduation goals using research-based learning processes. Satisfactory completion of work-based experience often in the form of internship, undergraduate research, co-op, or study abroad; self-evaluation; reflection; and showcase of learning. Pre-Departmental approval of 3900 plan anytime after the first year. Register for the semester that corresponds with the beginning of the Bridge Experience.

2. Six credit hours from any of the Topics courses are required for completion of degree; two of the six credit hours must be used for these subtopics: Portfolio (1 credit) and Workshop (1 credit). The subtopic courses are short, however, the time and credit hours may vary depending on the subject. Subtopic offerings may be repeated with instructor's permission. The following are examples of subtopics offered:
IDS 3204 Topics in Professional Development | Portfolio; Service Learning (client/civic engagement); Public Speaking; Social Entrepreneurship
IDS 3224 Topics in Design Competencies | Software; Model Making; Workshop (wood, metal, plastics); Design Visualization; Packaging, Furniture, or Exhibit Design
IDS 3234 Topics in Design Theory | Product Semantics; Ethics; Sustainability; Universal Design; Cross-Cultural Design

3. Professional elective requirements can be fulfilled from various courses throughout campus. The following subjects at 3000 or 4000 level are approved as professional electives: IDS, ARCH, ITDS, LAR, ART, SOC, AHRM, PSYC, COMM, CS, ENGE, ENGL, HUM, DRS, MGT, MKTG, PHIL, RED, SBIO, STS. Enrollment is based on space available and prerequisites student has completed.

Satisfactory Progress Towards Degree

The University requires every department to establish benchmarks by which their majors can demonstrate that they are making satisfactory progress towards a degree. In addition to successful completion of the University requirements (See Satisfactory Progress in Academics chapter of the Undergraduate Catalog), in the case of Industrial Design, the student must have completed ARCH 1015 Foundation Design Laboratory and ARCH 1016 Foundation Design Laboratory with a minimum grade point average of 2.00. If a student receives below a "C-" in IDS 2015 Industrial Design Laboratory II, IDS 2016 Industrial Design Laboratory II, IDS 3015 Industrial Design Laboratory III, IDS 3016 Industrial Design Laboratory III, and IDS 4015 Industrial Design Laboratory IV, students will not be able to progress to the next semester of design laboratory and the course will need to be repeated.

Restricted Major Requirements

Students who apply to the Industrial Design major through the internal major change process must meet the following requirements prior to entering the major:

1. Minimum 2.5 gpa in all courses prior to entering the summer design lab
2. Apply for summer design lab; Interview for summer design lab
3. Faculty review of summer work and grade of "C-" or better in ARCH 1015 & ARCH 1016 for admission to the Industrial Design major

Graduation Requirements

GPA Requirements

If a student's in-major GPA drops below 2.30, IDS courses with a grade below 2.0 must be repeated to elevate the in-major GPA to 2.50 before continuing in the degree. In-major GPA is calculated on all IDS courses. A minimum in-major 2.30 GPA in IDS courses and a minimum overall 2.00 GPA is required for graduation.

Prerequisites

Some courses listed on this check sheet may have pre-/co-requisites; please consult the University Course Catalog or check with your advisor.

Foreign Language Requirement

Language Requirement

Students who do not successfully complete at least 2 units of a single language, classical language, or American Sign Language during high school must successfully complete 6 semester hours of a single college level language or classical language at the college level. Such semester hours are in addition to those normally required for graduation. Please see the undergraduate catalog for details.