

**VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY**  
**College of Architecture and Urban Studies**  
**School of Architecture + Design**  
**Bachelor of Science in Industrial Design**  
**Checksheet For Students Graduating in the Calendar Year 2021**

I. Curriculum for Liberal Education	36 C required (3 fulfilled in major)
II. Industrial Design Degree Core Courses	35 C required
III. Major Required Courses	44 C required
IV. Professional Elective Courses	6 C required
V. Free Elective Courses	3 C required
<b>TOTAL CREDIT HOURS</b>	<b>124 C required</b>

**Departmental Policies**

**GPA Requirements**

In-major GPA requires a grade of C+ or better to successfully complete a Industrial Design Course. If a student's GPA drops below 2.3 in IDS courses, courses with a grade below 2.3 must be repeated to elevate the GPA to 2.5 before continuing in the degree. In-major GPA is calculated on all IDS courses. A minimum 2.3 GPA in IDS courses and a minimum overall 2.0 GPA is required for graduation.

**Satisfactory Progress Towards Degree**

The University requires every department to establish benchmarks by which thier 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, students must have completed ARCH 1015-1016 with a minimum of grade point average of 2.0. Students receiving below a B- in IDS 2015, 2016, 3015, 3016, 4015 are subject to review by the IDS faculty for satisfactory progress, perhaps resulting in a requirement for additional course work, including but not limited to, a summer studio requirement (IDS 3214).

**Restricted Major Requirements**

Students who make application to Industrial Design through the internal transfer process must meet the following requirements prior to entering the major:

- 1) Min 2.5 GPA in all courses prior to ARCH 1015
- 2) Application to Summer Qualifying Design Lab; Interview for Summer Qualifying Design Lab
- 3) Faculty Review of Summer Work and 3.5 min in Lab for admission to 2nd Year Lab
- 4) Faculty Review of Summer Work and < 3.5 and > 2.0 min in Lab for admission to 1st Year

**Prerequisites**

Some courses listed on this checksheet may have prerequisites; please consult the University Course Catalog or check with your advisor for more information

<b>I. Curriculum for Liberal Education</b>	<b>36 C required (3 fulfilled in major)</b>
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Area 1: Writing and Discourse	<b>6 C required</b>
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ENGL 1105 First-Year Writing	3
ENGL 1106 First-Year Writing	3

Area II: Ideas, Cultural Traditions and Values	<b>6 C required</b>
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ART 2385 Survey of the History of Western Art	3
ART 2386 Survey of the History of Western Art	3

Area III: Society and Human Behavior	<b>6 C required</b>
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Select from any approved Area IV courses	3
Select from any approved Area IV courses	3

Area IV: Scientific Reasoning and Discovery	<b>6 C required</b>
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Select from any approved Area IV courses	3
Select from any approved Area IV courses	3

Area V: Quantitative and Symbolic Reasoning	<b>6 C required</b>
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MATH 1535 Geometry & Mathematics of Design	3
MATH 1536 Geometry & Mathematics of Design	3

Area VI: Creativity and Aesthetic Experience	3 C Required (fulfilled in major)
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Satisfied by ARCH 1015 Foundation Design Laboratory

Area VII: Critical Issues in a Global Context	<b>3 C required</b>
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Select from any approved Area VII courses	3
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Additional Elective Courses in Area II, III, IV	<b>3 C Required</b>
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Select from any approved Area II, III, IV courses	3
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<b>II. Industrial Design Degree Core Courses</b>	<b>35 C required</b>
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IDS 2015 Industrial Design Lab II	_____	5
IDS 2016 Industrial Design Lab II	_____	6
IDS 3015 Industrial Design Lab III	_____	6
IDS 3016 Industrial Design Lab III	_____	6
IDS 4015 Industrial Design Lab IV	_____	6
IDS 4016 Industrial Design Lab IV	_____	6

<b>III. Major Required Courses</b>	<b>44 C required</b>
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ARCH 1015 Foundation Design Laboratory	_____	6
ARCH 1016 Foundation Design Laboratory	_____	6
IDS 2114 History and Theory of Industrial Design	_____	3
IDS 2124 History and Theory of Industrial Design-Designers	_____	3
ARCH 3514 Design-Related Media	_____	3
IDS 2304 Computer Aided Industrial Design	_____	3
IDS 3124 Materials and Processes	_____	3
IDS 3514 Design Research	_____	3 (Pre: 2016)
IDS 4044 Professional Practice and Entrepreneurship	_____	2 (Pre: 2015)
IDS 2044 Human Factors	_____	3 (Pre: ARCH 1016)
[*See Note 2 for the Following Major Required Courses]		
IDS 3204, 3224, 3234: Topics in Industrial Design*	_____	9

<b>IV. Professional Elective Courses</b>	<b>6 C required</b>
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\*\*\*See Note 3 for the following Professional Elective Courses]

COURSE xxxx Professional Elective**	_____	3
COURSE xxxx Professional Elective**	_____	3

<b>V. Free Elective Courses</b>	<b>3 C required</b>
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COURSE xxxx Free Elective	_____	3
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<b>TOTAL CREDIT HOURS</b>	<b>124 C required</b>
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<b>Foreign Language Requirements</b>
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5] 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.

<b>Notes</b>
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- 1] Two summer studios are offered: IDS 2214 - IDS Studio for Minors for the minor degree; and IDS 3214 - IDS Summer Studio for the major degree. The summer studio for minors is required for that degree. The summer studio for majors is available with faculty approval.
- 2] IDS 3204, 3224, 3234: Topics in Industrial Design; IDS 3204: Topics in Professional Development; IDS 3224: Topics in Design Competencies; IDS 3234: Topics in Design Theory. 9 credit hours (from any of the Topics courses) are required for completion of degree; 5 of the 9 credit hours must be used for these subtopics: Portfolio, Workshop, and Design Visualization. The subtopic courses are short, usually 5 weeks (2 contact hours per week) and 1 credit hour; 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 are encouraged: Material Science, Wood Science, Ceramics, Photography, Metals and Metal Processes, Marketing, Technical Writing, Public Speaking, Sculpture, Color Theory and Digital Art. Alternative professional elective courses may be substituted in coordination with the Program Chair of Industrial Design.