

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY  
College of Architecture and Urban Studies  
School of Architecture and Design  
**BACHELOR OF SCIENCE IN INDUSTRIAL DESIGN**  
For Students Graduating in Calendar Year 2018

Student Name \_\_\_\_\_

Student Number \_\_\_\_\_

FIRST YEAR	FALL	SPRING
Foundation Design Lab* ARCH 1015, 1016 [see note 2] [University VIEWS requirement - see note 7]	(6) <input type="text"/>	(6) <input type="text"/>
Area 1: Writing and Discourse ENGL 1105, 1106: Freshman English	(3) <input type="text"/>	(3) <input type="text"/>
Area V: Quantitative and Symbolic Reasoning MATH 1535, 1536: Geometry and Mathematics of Design	(3) <input type="text"/>	(3) <input type="text"/>
Area IV: Scientific Reasoning and Discovery	(3) <input type="text"/>	(3) <input type="text"/>
<b>Credit Hours for Each Semester</b>	<b>(15)</b> <input type="text"/>	<b>(15)</b> <input type="text"/>
<b>CREDIT FOR THE YEAR</b>		<b>(30)</b>

SECOND YEAR	FALL	SPRING
Industrial Design Laboratory II* IDS 2015-2016 [University VIEWS requirement - see note 7]	(5) <input type="text"/>	(6) <input type="text"/>
Topics in Industrial Design [see note 4]* IDS 3224 Design Competencies: Workshop	(1) <input type="text"/>	
Design Visualization* IDS 2065-2066	(2) <input type="text"/>	(2) <input type="text"/>
Human Factors* IDS 2044		(3) <input type="text"/>
Computer Aided Industrial Design* IDS 2304	(3) <input type="text"/>	
Area III: Society and Human Behavior	(3) <input type="text"/>	(3) <input type="text"/>
History/Theory Industrial Design* [University VIEWS requirement - see note 7] IDS 2114	(3) <input type="text"/>	
History/Theory of ID - Designers* [University VIEWS requirement - see note 7] IDS 2124		(3) <input type="text"/>
<b>Credit Hours for Each Semester</b>	<b>(17)</b> <input type="text"/>	<b>(17)</b> <input type="text"/>
<b>CREDIT FOR THE YEAR</b>		<b>(34)</b>

Summer Study Abroad – Optional [Credits can be used as IDS 3234 Topics in Design Theory: Cross Cultural Design or as Professional Elective]

THIRD YEAR	FALL	SPRING
Industrial Design Laboratory III* IDS 3015-3016 [University VIEWS requirement - see note 7]	(6) <input type="text"/>	(6) <input type="text"/>
Materials and Processes* IDS 3124		(3) <input type="text"/>
Design Research* IDS 3514	(3) <input type="text"/>	
Area II: Ideas, Cultural Traditions and Values ARCH 3115, 3116 History of Architecture - OR ART 2385, 2386 Survey of Western Art History [see note 3] [University VIEWS requirement - see note 7]	(3) <input type="text"/>	(3) <input type="text"/>
Additional Elective courses in Area II, III, or IV	(3) <input type="text"/>	
Area VII: Critical Issues in a Global Context		(3) <input type="text"/>
Topics in Industrial Design [see note 4]* IDS 3204 Topics in Professional Development, IDS 3224 Design Competencies or IDS 3234 Design Theory	(1) <input type="text"/>	(1) <input type="text"/>
<b>Credit Hours for Each Semester</b>	<b>(16)</b> <input type="text"/>	<b>(16)</b> <input type="text"/>
<b>CREDIT FOR THE YEAR</b> [* courses in major]		<b>(32)</b>

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FOURTH YEAR	FALL	SPRING
Industrial Design Laboratory IV* IDS 4015-4016 [University VIEWS requirement - see note 7]	(6) <input style="width: 50px;" type="text"/>	(6) <input style="width: 50px;" type="text"/>
Professional Practice & Entrepreneurship* IDS 4044	(2) <input style="width: 50px;" type="text"/>	
Professional Elective - [see note 5]	(3) <input style="width: 50px;" type="text"/>	(3) <input style="width: 50px;" type="text"/>
Design Related Media* ARCH 3514 [offered as special topics, i.e., ceramics, printmaking: max. 6 units]	(3) <input style="width: 50px;" type="text"/>	
Free Elective		(3) <input style="width: 50px;" type="text"/>
Topics in Industrial Design [see note 4]* IDS 3204 Topics in Professional Development, IDS 3224 Design Competencies or IDS 3234 Design Theory		(2) <input style="width: 50px;" type="text"/>
<b>Credit Hours for Each Semester</b>	<b>(14)</b> <input style="width: 50px;" type="text"/>	<b>(14)</b> <input style="width: 50px;" type="text"/>
<b>CREDIT FOR THE YEAR</b> [* courses in major]		<b>(28)</b>
<b>TOTAL CREDIT HOURS FOR FOUR YEARS:</b>		<b>(124)</b>
Required for BACHELOR OF SCIENCE - INDUSTRIAL DESIGN		

**NOTES**

- 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] Curriculum for Liberal Education Area VI: Creativity and Aesthetic Experience is satisfied through Foundation Design Laboratory, ARCH 1015.
- 3] ARCH 3115-16 or ART 2385-2386 fulfills the Curriculum for Liberal Education Area II [Ideas, Cultural Traditions and Values] requirement. Three additional semester hours of electives in Area II, III, or IV are required for students in the Bachelor of Science in Industrial Design.
- 4] 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). **5 credit hours (from any of the Topics courses) are required for completion of degree; 2 of the 5 credit hours must be used for these subtopics: Portfolio and Workshop.** 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); Packaging, Furniture, or Exhibit Design
  - IDS 3234: Topics in Design Theory | Product Semantics; Ethics; Sustainability; Universal Design; Cross-Cultural Design
- 5] 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.
- 6] **Satisfactory progress toward degree:** in addition to successful completion of the University requirements, students must have completed ARCH 1015-1016 with a minimum of grade point average of 2.0 and maintain a C+ minimum GPA in IDS courses (courses in major indicated by \*) for satisfactory progress toward the degree. Students receiving below a C- 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). 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 2.3 before continuing in the degree. A minimum 2.3 GPA in IDS courses and a minimum overall 2.0 GPA is required for graduation. Prerequisites are listed in each course description. There are no hidden course prerequisites. **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 Lab
- 7] This course incorporates the university VIEWS [Visual Expression, Writing and Speaking] requirements. Consult the Virginia Tech Curriculum for Liberal Education Guide: <http://www.cle.prov.vt.edu/> for the University Policy on VIEWS. A copy of the specific School proposal is available in the School's administrative offices. The VIEWS communication requirement is met through an array of theory, history, technology, practicum, and studio courses.
- 8] **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.