Industrial Design (Bachelor)

To see more about what you will learn in this program, visit the Learning Outcomes website (https://apps.oirp.ncsu.edu/pgas/)!

The Industrial Design Program offers a four-year professional bachelor degree. Industrial Design is concerned with all human aspects of products/technologies/systems and their relationship to people. The industrial designer is responsible for product safety, aesthetics, usability, maintenance, and cost. Industrial designers deal with consumer and industrial products. In order to achieve these ends, designers must be involved in major design and research areas such as human behavior, human-machine relationships, the environment, and the product itself. In addition, the designer's responsibility extends into sustainability, product liability, and cross-cultural issues.

Areas of study in the Bachelor of Industrial Design include:

- furniture
- · textiles, house wares
- · appliances
- transportation
- tools
- · farm equipment
- · medical instruments
- · electronics
- human-computer interfaces
- · recreational support equipment

The goal of the Industrial Design curriculum is to teach the design and development of products or product systems and their relationship to human beings and the environment.

Graduates of the Bachelor of Industrial Design program have career opportunities in three general types of practice: corporate design offices in manufacturing companies, independent consulting offices, and governmental agencies.

Plan Requirements

Code Writing	Title	Hours	Counts towards
ENG 101	Academic Writing and Research ¹	4	
Core Requireme	ents		
ID 110	Introduction to Digital Techniques ¹	3	
ID 210	Intermediate Digital Techniques ¹	3	
ID 310	Advanced Digital Techniques ¹	3	
ID 216	Visualization I ¹	3	
ID 316	Visualization II ¹	3	

ID 255	Contemporary Manufacturing Processes I ¹	3
ID 244	History of Industrial Design	3
ID 240	Human-Centered Design ¹	3
ID 340	Research Methods in Industrial Design	3
ID 440	Experience Design for ID ¹	3
Design Electives	(p. 2) ¹	6
Studios		
D 104	First Year Studio	6
ID 102	Basic Industrial Design Studio ¹	6
ID 201	Industrial Design Studio I ¹	6
ID 202	Industrial Design Studio II ¹	6
ID 301	Industrial Design Studio III ¹	6
ID 302	Industrial Design Studio IV ¹	6
ID 401	Advanced Industrial Design Studio I ¹	6
ID 402	Advanced Industrial Design Studio II ¹	6
International Ex	perience	
International Exp Allowed, Verify re		0
General Educati (GEP) Courses	ion Program	
GEP Humanities catalog.ncsu.edu gep-category-rechumanities/)	/undergraduate/	3
GEP Social Sciencetalog.ncsu.edu gep-category-rec social-sciences/)	/undergraduate/	6
GEP Mathematic catalog.ncsu.edu gep-category-rec mathematical-sci	uirements/gep-	6
GEP Natural Sciences of Catalog.ncsu.edu gep-category-reconstural-sciences	/undergraduate/ juirements/gep-	7

GEP Health and Exercise Studies (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/gep-health-exercise- studies/)	2
GEP US Diversity, Equity, and Inclusion (http://catalog.ncsu.edu/undergraduate/gep-category-requirements/gep-usdei/)	3
GEP Global Knowledge (http:// catalog.ncsu.edu/undergraduate/ gep-category-requirements/ gep-global-knowledge/) (verify requirement)	
Foreign Language Proficiency (http://catalog.ncsu.edu/ undergraduate/gep-category- requirements/foreign-language- proficiency/) (verify requirement)	
Free Electives	
Free Electives (12 Hr S/U Lmt) ³	5
Total Hours	120

¹ A grade of C- or higher is required.

Design Electives

Code	Title	Hours	Counts towards
ADN 212	Photography I	3	
ADN 219	Digital Imaging I	3	
ADN 272	Introduction to Printing and Surface Design	3	
ADN 273	Fibers Materials and Processes	3	
ADN 281	Drawing I	3	
ADN 312	Photography II	3	
ADN 319	Animation I	3	
ADN 384	Painting I	3	
ADN 386	Sculpture I	3	
ADN 414	Color and Light	3	
ADN 419	Creative Technology Studio I	3	
ADN 472	Advanced Surface Design	3	
ADN 481	Drawing II	3	
ADN 486	Sculpture II	3	
ARC 162	An Introduction to Architecture	3	
GD 492	Special Topics in Graphic Design	3	

GD 494	Internship in Graphic Design	3	
GD 495	Independent Study in Graphic Design	1-3	
GD 510	Imaging for Graphic Design IV	3	
GD 517	Type IV	3	
ID 256	Contemporary Manufacturing Processes II	3	
ID 262	Professional Practice in Industrial Design	3	
ID 494	Internship in Industrial Design	1-6	
ID 495	Independent Study in Industrial Design	1-3	

Notes

- Students who major in Industrial Design may elect one (1) six-credithour studio outside the major to fulfill one (1) 200 or 300 level studio requirement.
- Declaration of intent to enroll in studios other than Industrial Design during any semester must be made during the pre-registration period prior to enrollment. No more than one (1) six credit studio may be taken in any given semester.

Semester Sequence

This is a sample.

Spring Semester

First Year

Fall Semester		Hours
ID 110	Introduction to Digital Techniques	3
D 104	First Year Studio I	6
ID 244	History of Industrial Design	3
	d Exercise Studies (http://catalog.ncsu.edu/ /gep-category-requirements/gep-health-exercise-	1
	Hours	13

ID 102	Basic Industrial Design Studio	6
ID 210	Intermediate Digital Techniques	3
ID 216	Visualization I	3
ENG 101	Academic Writing and Research	4
	Hours	16
Second Year		
Fall Semester		
ID 201	Industrial Design Studio I	6
ID 310	Advanced Digital Techniques	3
ID 316	Visualization II	3
GEP Social Scien	nces (http://catalog.ncsu.edu/undergraduate/	3
gep-category-req	uirements/gep-social-sciences/)	
	Hours	15

Students should consult their academic advisors to determine how to complete this requirement.

³ Students should consult their academic advisors to determine which courses fill this requirement.

Total Hours	120
Hours	16
Exercise Studies (http://catalog.ncsu.edu/ p-category-requirements/gep-health-exercise-	1
, Equity, and Inclusion (http://catalog.ncsu.edu/ p-category-requirements/gep-usdei/)	3
uirements/gep-social-sciences/)	
ces (http://catalog.ncsu.edu/undergraduate/	3
j –	3
Advanced Industrial Design Studio II	6
	15
nces (http://catalog.ncsu.edu/undergraduate/ uirements/gep-natural-sciences/)	4
	3
0. 2)	2
Advanced Industrial Design Studio I	6
Hours	15
al Sciences (http://catalog.ncsu.edu/ p-category-requirements/gep-mathematical-	15
uirements/gep-natural-sciences/)	
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Hours	15
nents/gep-humanities/)	,
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Hours	1.
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p-category-requirements/gep-mathematical-	;
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	Industrial Design Studio II Human-Centered Design al Sciences (http://catalog.ncsu.edu/ p-category-requirements/gep-mathematical- Contemporary Manufacturing Processes I Hours Industrial Design Studio III Research Methods in Industrial Design Contemporary Manufacturing Processes II (http://catalog.ncsu.edu/undergraduate/gep- nents/gep-humanities/) Hours Industrial Design Studio IV Experience Design for ID nces (http://catalog.ncsu.edu/undergraduate/ uirements/gep-natural-sciences/) al Sciences (http://catalog.ncsu.edu/ p-category-requirements/gep-mathematical- Hours Advanced Industrial Design Studio I b. 2) nces (http://catalog.ncsu.edu/undergraduate/ uirements/gep-natural-sciences/) Hours Advanced Industrial Design Studio II ces (http://catalog.ncsu.edu/undergraduate/ uirements/gep-social-sciences/) Fours Advanced Industrial Design Studio II ces (http://catalog.ncsu.edu/undergraduate/ uirements/gep-social-sciences/) Fours Exercise Studies (http://catalog.ncsu.edu/ p-category-requirements/gep-usdei/) Exercise Studies (http://catalog.ncsu.edu/

Career Opportunities

Career opportunities for graduates of the Department of Graphic and Industrial Design span the range from industrial design to virtual design. Graduates of this department are currently working in fields such as product development, furniture design, recreational product design, toy design, exhibition design, textile design, fashion design, photography, film making, special effects, set design, ergonomics and human factors.