Industrial Design (Bachelor)

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	Title	Hours
Writing		
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 ¹	3
ID 240	Human-Centered Design ¹	3
ID 340	Research Methods in Industrial Design ¹	3
ID 440	Experience Design for ID ¹	3
Design Electives	(p. 1) ¹	6
Studios		
D 104	First Year Studio I	6
ID 102	Basic Industrial Design Studio ¹	6

	Industrial Design Studio I ¹	6
ID 201		
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	6
ID 402	Advanced Industrial Design Studio II ¹	6
International		
International E	Experience (S Allowed, Verify requirement) ²	0
General Edu	cation Program (GEP) Courses	
	ies (http://catalog.ncsu.edu/undergraduate/gep- irements/gep-humanities/)	3
	ciences (http://catalog.ncsu.edu/undergraduate/gep- irements/gep-social-sciences/)	6
	atical Sciences (http://catalog.ncsu.edu/undergraduate/ requirements/gep-mathematical-sciences/)	6
	Sciences (http://catalog.ncsu.edu/undergraduate/gep- irements/gep-natural-sciences/)	7
	nd Exercise Studies (http://catalog.ncsu.edu/ e/gep-category-requirements/gep-health-exercise-	2
GEP Elective requirements/	(http://catalog.ncsu.edu/undergraduate/gep-category-	3
	(nowledge (http://catalog.ncsu.edu/undergraduate/gep- irements/gep-global-knowledge/) (verify requirement)	
	ions of American Democracy (http://catalog.ncsu.edu/ e/gep-category-requirements/gep-fad/) (verify	
	ge Proficiency (http://catalog.ncsu.edu/undergraduate/ requirements/world-language-proficiency/) (verify	
Free Elective	2S	
	s (12 Hr S/U Lmt) ³	5
Free Electives		

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

Design Electives

Code	Title	Hours
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 II	3
ADN 472	Advanced Surface Design	3

ADN 486Sculpture II3ARC 162An Introduction to Architecture3GD 492Special Topics in Graphic Design3GD 494Internship in Graphic Design3GD 495Independent Study in Graphic Design IV3GD 510Imaging for Graphic Design IV3GD 517Type IV3ID 262Professional Practice in Industrial Design3ID 494Internship in Industrial Design1-6ID 495Independent Study in Industrial Design1-3	ADN 481	Drawing II	3
GD 492Special Topics in Graphic Design3GD 494Internship in Graphic Design3GD 495Independent Study in Graphic Design1-3GD 510Imaging for Graphic Design IV3GD 517Type IV3ID 256Contemporary Manufacturing Processes II3ID 262Professional Practice in Industrial Design3ID 494Internship in Industrial Design1-6	ADN 486	Sculpture II	3
GD 494Internship in Graphic Design3GD 495Independent Study in Graphic Design1-3GD 510Imaging for Graphic Design IV3GD 517Type IV3ID 256Contemporary Manufacturing Processes II3ID 262Professional Practice in Industrial Design3ID 494Internship in Industrial Design1-6	ARC 162	An Introduction to Architecture	3
GD 495Independent Study in Graphic Design1-3GD 510Imaging for Graphic Design IV3GD 517Type IV3ID 256Contemporary Manufacturing Processes II3ID 262Professional Practice in Industrial Design3ID 494Internship in Industrial Design1-6	GD 492	Special Topics in Graphic Design	3
GD 510Imaging for Graphic Design IV3GD 517Type IV3ID 256Contemporary Manufacturing Processes II3ID 262Professional Practice in Industrial Design3ID 494Internship in Industrial Design1-6	GD 494	Internship in Graphic Design	3
GD 517Type IV3ID 256Contemporary Manufacturing Processes II3ID 262Professional Practice in Industrial Design3ID 494Internship in Industrial Design1-6	GD 495	Independent Study in Graphic Design	1-3
ID 256Contemporary Manufacturing Processes II3ID 262Professional Practice in Industrial Design3ID 494Internship in Industrial Design1-6	GD 510	Imaging for Graphic Design IV	3
ID 262Professional Practice in Industrial Design3ID 494Internship in Industrial Design1-6	GD 517	Type IV	3
ID 494 Internship in Industrial Design 1-6	ID 256	Contemporary Manufacturing Processes II	3
	ID 262	Professional Practice in Industrial Design	3
ID 495 Independent Study in Industrial Design 1-3	ID 494	Internship in Industrial Design	1-6
······································	ID 495	Independent Study in Industrial Design	1-3

Notes

- 1. 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.

First Year

	Hours
Introduction to Digital Techniques	3
First Year Studio I	6
History of Industrial Design	3
cise Studies (http://catalog.ncsu.edu/ ategory-requirements/gep-health-exercise-	1
Hours	13
Basic Industrial Design Studio	6
Intermediate Digital Techniques	3
Visualization I	3
Academic Writing and Research	4
Hours	16
Industrial Design Studio I	6
Advanced Digital Techniques	3
Visualization II	3
(http://catalog.ncsu.edu/undergraduate/ ments/gep-social-sciences/)	3
Hours	15
Industrial Design Studio II	6
Human-Centered Design	3
ciences (http://catalog.ncsu.edu/ ategory-requirements/gep-mathematical-	3
	First Year Studio I History of Industrial Design rcise Studies (http://catalog.ncsu.edu/ ategory-requirements/gep-health-exercise- Hours Basic Industrial Design Studio Intermediate Digital Techniques Visualization I Academic Writing and Research Hours Industrial Design Studio I Advanced Digital Techniques Visualization II (http://catalog.ncsu.edu/undergraduate/ ments/gep-social-sciences/) Hours Industrial Design Studio II Human-Centered Design ciences (http://catalog.ncsu.edu/

ID 255	Contemporary Manufacturing Processes I	3
	Hours	15
Third Year		
Fall Semester		
ID 301	Industrial Design Studio III	6
ID 340	Research Methods in Industrial Design	3
ID 256	Contemporary Manufacturing Processes II	3
	(http://catalog.ncsu.edu/undergraduate/gep- nents/gep-humanities/)	3
	Hours	15
Spring Semester	r	
ID 302	Industrial Design Studio IV	6
ID 440	Experience Design for ID	3
GEP Natural Scie	ences (http://catalog.ncsu.edu/undergraduate/	3
gep-category-req	uirements/gep-natural-sciences/)	
	al Sciences (http://catalog.ncsu.edu/ ep-category-requirements/gep-mathematical-	3
	Hours	15
Fourth Year		
Fall Semester		
ID 401	Advanced Industrial Design Studio I	6
Design Elective (Ũ	2
Free Elective	,	3
	ences (http://catalog.ncsu.edu/undergraduate/ uirements/gep-natural-sciences/)	2
3-1	Hours	15
Spring Semeste		
ID 402	Advanced Industrial Design Studio II	6
Free Elective		3
GEP Social Scier	nces (http://catalog.ncsu.edu/undergraduate/	3
gep-category-req	uirements/gep-social-sciences/)	
GEP Elective (htt category-requiren	p://catalog.ncsu.edu/undergraduate/gep- nents/)	3
salogory requirer		
GEP Health and I	Exercise Studies (http://catalog.ncsu.edu/ ep-category-requirements/gep-health-exercise-	
GEP Health and I undergraduate/ge		1

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.

Career Titles

- Art, Drama, & Music Professors
- Commercial Designer
- Furniture Designer
- · Graphic Designer
- Industrial Designer

- Interior Designer
- Ornamental-Metalwork Designer
- Package Designer
- Product Planner
- Textile Designer
- Toy Designer
- Web Art Director

Learn More About Careers

NCcareers.org (https://nccareers.org/)

Explore North Carolina's central online resource for students, parents, educators, job seekers and career counselors looking for high quality job and career information.

Occupational Outlook Handbook (https://www.bls.gov/ooh/) Browse the Occupational Outlook Handbook published by the Bureau of Labor Statistics to view state and area employment and wage statistics. You can also identify and compare similar occupations based on your interests.

Career One Stop Videos (https://www.careeronestop.org/) View videos that provide career details and information on wages, employment trends, skills needed, and more for any occupation. Sponsored by the U.S. Department of Labor.

Focus 2 Career Assessment (https://careers.dasa.ncsu.edu/explorecareers/career-assessments/) (NC State student email address required) This career, major and education planning system is available to current NC State students to learn about how your values, interests, competencies, and personality fit into the NC State majors and your future career. An NC State email address is required to create an account. Make an appointment with your career counselor (https:// careers.dasa.ncsu.edu/about/hours-appointments/) to discuss the results.

Focus 2 Apply Assessment (https://www.focus2career.com/Portal/ Register.cfm?SID=1929) (Available to prospective students) A career assessment tool designed to support prospective students in exploring and choosing the right major and career path based on your unique personality, interests, skills and values. Get started with Focus 2 Apply and see how it can guide your journey at NC State.

Industrial Designers Society of America (http://www.idsa.org/)