

The image features a dark blue background with decorative geometric patterns in the top corners. On the left, a vertical grid of squares is shown, with some squares containing diagonal lines or circles. On the right, a similar grid is shown, with some squares containing diagonal lines or circles, and a larger square containing a circle divided into four quadrants.

Industrial Design

Bachelor of Science Degree

Kanbar College | School of Design & Engineering

Presentation Overview

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Tod Corlett

INDUSTRIAL DESIGN PROGRAM, DIRECTOR



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Jefferson

CREATE WHAT'S NEXT

PROGRAM DESCRIPTION

Industrial design (ID) is about creating the future. You'll learn how to design products and systems that transform the lives of people worldwide: from human-powered washing machines for developing societies, to interactive car control systems; from better backpacks for airline travel, to prosthetic legs for football players. It all starts with the design process, a way of thinking and working to develop strategies for innovation, propose better systems and services, and create valued products.

Working in an open, collaborative studio environment, you'll learn how to make drawings and 3D models, build prototypes and share ideas with others to learn from their input. You'll create in a sustainable and responsible way, addressing the needs of the end user, the client, and the world as a whole. Participating in global design teams will sharpen your skills through travel and research. You'll even collaborate on real projects with leading companies like Philips, Knoll, and Umbra.

A degree in ID opens a wide array of career paths to you. Our graduates have gone on to become leaders at design-driven companies and consultancies, have founded their own startups, and joined socially-driven organizations to improve the lives of others.

The B.S. in Industrial Design program is NASAD accredited.

International students can receive STEM OPT extension through our Design Technology Certificate program.

PLAN OF STUDY

Total: 133–134 credits

First Year (32–34 credits)

Major Core

- Design I for Industrial Design
- Design II for Industrial Design
- Materials & Processes: Fabrication
- CAD 1 for Industrial Design
- Visual Studies: Drawing
- History of Western Art II

DEC Core

- Framework: Business Models

Hallmarks Core

- Pathways Seminar
- Writing Seminar I
- Debating U.S. Issues
- Mathematics
- Physical Education or Service Learning

Second Year (32–33 credits)

Major Core

- Design III for Industrial Design
- Design IV for Industrial Design
- Materials & Processes for Manufacturing
- Drawing for Design Development
- History of Design and Communication

DEC Core

- Process: Integrative Design Process

Hallmarks Core

- Science: Physics
- Ethics
- Global Diversity
- Writing Seminar II: Multimedia - Communication

Third Year (33 credits)

Major Core

- Design V for Industrial Design
- Design VI for Industrial Design
- Ergonomic Studies
- Design History & Theory

DEC Core

- Integrative Seminar:
Ethnographic Research Methods
- Science (Select one DECS)

Hallmarks Core

- American Diversity
- Global Citizenship
- Debating Global Issues

One Free Elective

Fourth Year (31 credits)

Major Core

- Design VII for Industrial Design
- Design VIII for Industrial Design
- History of Western Art 1

Hallmarks Core

- Capstone Folio Workshop

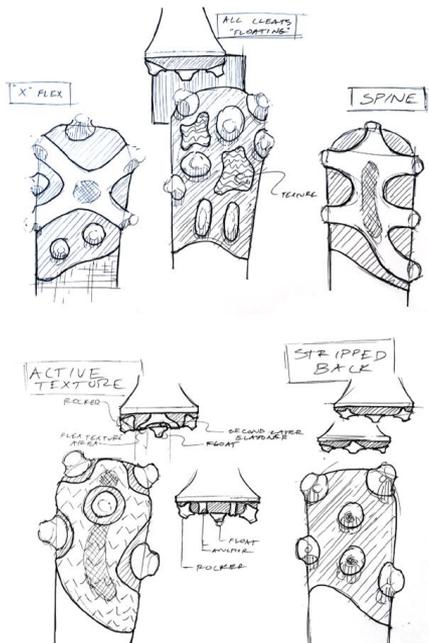
Concentration Courses

Three Courses (9 credits)

Free Electives

Two Free Electives (6 credits)

SAMPLE STUDENT WORK



Prosthetic blade cleat for field sports



Bedsore prevention system for long-term care facilities



Waterjet-cut metal seating



Glass-fiber reinforced coffee table

SAMPLE STUDENT WORK



Midwifery backpack for developing countries



Collaborative footwear with Brooklyn Shoe Space

GRADUATION RATE

90%

PLACEMENT RATE

90%

RANKINGS

#3 in the Eastern US

#5 Nationally

(Latest DesignIntelligence ID rankings)

AWARDS

Elena Krupicka (Class of 2020):

2019 Puma/PENSOLE World Sneaker
Competition Champion for
Color + Material Design

EMPLOYERS OF JEFFERSON GRADUATES

- Johnson & Johnson
- Nike
- Smart Design
- Armstrong World Industries
- Knoll International
- Amtrak
- Caterpillar
- Urban Outfitters
- Ring
- Energizer
- Lowepro
- PetSmart
- Vans
- H Robotics

JOB TITLE

Industrial Designer

OUTLOOK

- Industrial design as a profession is projected to grow through the coming decade. Consumer demand for innovative new products is strong.
- Employment of industrial designers is likely to continue to grow most in areas that require a high degree of technical ability and design sophistication. Products in these areas require detailed user needs to be incorporated into the design process in order to meet consumer expectations and ensure the effective and enjoyable use of the product.
- Prospects should be best for job applicants who have a strong background in two- and three-dimensional computer-aided design and drafting (CADD) and computer-aided industrial design (CAID). The increasing trend toward the use of sustainable resources is likely to improve prospects for applicants who know how to work with sustainable resources.

SALARIES

MAX	\$108,000
MEDIAN	\$67,000
START	\$40,000

- **Industrial Designers Society of America**

- Jefferson has an active IDSA student chapter. Each year, students participate in the IDSA Student Merit Award program.
- Philadelphia IDSA professional chapter regularly hosts an array of world-class industry events open to all student members.
- The Jefferson ID program is formally endorsed by IDSA.



Jessica Monteleone

INDUSTRIAL DESIGN MAJOR
PHILADELPHIA, PA
CLASS OF 2020

“In the past, I let my skills limit my ideas. But during my time at Jefferson, I’ve learned how to step out of my comfort zone and learn new skills then use them to execute each design in a unique way. Now, I’m able to use that approach with every project I work on.”

Recognition

- First Place – LuminARC Drinkware of the Future Competition
- Runner Up – RESNA International Design Competition
- IDSA Philadelphia Chapter Student Merit Award



Zach Samalonis

INDUSTRIAL DESIGN MAJOR & VARSITY CROSS COUNTRY RUNNER
BLACKWOOD, NJ
CLASS OF 2020

“Working through design problems is the exciting part of ID, especially in group projects. Being part of a team not only helps me learn things I didn’t know I needed, it allows me to teach others, too. We constantly bounce ideas off each other and share in every aspect of the project. This way, we’re able to accomplish so much more.”

Recognition

- CACC All-Academic Team
- Runner Up – RESNA International Design Competition
- IDSA Philadelphia Chapter Student Merit Nominee
- Jefferson Industrial Design Program Ambassador



Eric Schneider

ASSOCIATE PROFESSOR

Eric Schneider holds a bachelor's degree in Industrial Design from Carnegie Mellon University and a Master's of Science in Dynamics of Organizations from the University of Pennsylvania. He has worked for the Milton Bradley Company, The Singer Company, and Bresslergroup consulting.

Eric founded Phase One Design in 1992, providing a full range of services required for new product development. The firm has done work for clients as diverse as Alcatel Lucent, Honeywell, Johnson & Johnson, and Agilent, along with many technology-driven start-up companies.

Eric has written about and lectured on industrial design in the United States, Hong Kong, and China. Recent projects for his company have included a system for dispensing high purity water in laboratories, a bioreactor for growing organic compounds, a portable instrument for testing aircraft avionics, and a hand held device for diagnosing head trauma injuries.

Eric has taught in the Industrial Design Program at Thomas Jefferson University since 2010, teaching both undergraduate and graduate courses.



Lyn Godley

ASSOCIATE PROFESSOR

Lyn Godley began her career in Fine Arts, then spent 30 years working as a designer, bringing form and beauty to functional objects. Her work has crossed the borders of interiors, products, furniture, lighting, and jewelry. Her designs, done both individually and as co-principal of Godley-Schwan (1984-1998) with the late Lloyd Schwan, have been exhibited internationally. The Crinkle Lamp, the last piece designed jointly by Godley-Schwan, was accepted into the permanent collection at the Museum of Modern Art.

From chandeliers to full-scale illuminated evening gowns, she has designed a wide range of light sources and effects. She is regularly chosen for public art projects that integrate light into public spaces and was most recently awarded the Percent for Art commission for the public art at SugarHouse Casino in Philadelphia.

In collaboration with Thomas Jefferson University's Lighting Research Lab, Professor Godley has developed a concentration in Lighting Design with courses such as Fundamentals of Lighting, Lighting as Public Experience, Luminaire Design, and Lighting & Health.



Frank Fortson

ADJUNCT PROFESSOR

Frank is a designer, artist and educator who brings over forty years of experience to the Jefferson Industrial Design program. One of the founding partners of Nave Fortson Nicholson Design Associates, his clients have ranged from Adidas to 20th Century Studios. His work has received numerous industry awards in a wide array of areas including trade show displays, public exhibitions and museum design.

Frank's passion for design is evident in the extensive skill set he draws upon during each student encounter. With expertise ranging from hand sketching to overall project management, Frank is a cornerstone of the industrial design program. He teaches project-based studios as well as fundamental skills building classes such as Rendering and Design Development Drawing. Frank has utilized these talents for over twenty five years as an educator.



Christina Kazakia

ADJUNCT PROFESSOR

Christina Kazakia is an observer, a maker, and an entrepreneur whose designs respond to the natural inclinations and needs of people. She holds a BA in Design Arts and Economics from Lehigh University and a Masters in Industrial Design from Rhode Island School of Design (RISD).

She has been with Thomas Jefferson University since 2013 teaching undergraduate and graduate industrial design courses while operating her business, Stick-lets, and providing design and research services to companies including Roar for Good, PCSTrac, and fathom. Client projects include developing ergonomic and fashionable wearable technology, enhancing supply chain software through UX and UI design, and proposing efficient, effective hospital environments.

Her product, Stick-lets, is an open-ended building tool designed to reconnect children with nature. Her work has appeared at the Women in ID exhibit during San Francisco Design Week, KidsRoomZoom, and Milan Design Week to name a few. The Huffington Post, Metropolis Magazine and Dezeen have also featured her work. In 2014, Kazakia was recognized as an “Up-and-Coming Female Industrial Designer” by IDSA’s Women in Design Section.



Nathan VanHook

SENIOR CREATIVE DIRECTOR, NIKE
PORTLAND, OR
CLASS OF 2003

“...this new age of the sneaker has been partly because of the design direction of Nathan VanHook, a Senior Creative Director at Nike Sportswear HQ. With a degree in Industrial Design and stints as an art and design teacher, furniture designer and wetsuit designer, Nathan eventually made his way to Nike in 2008. His first design landmark at the company was the Nike Aina Chukka and since then, he has spearheaded seminal footwear styles like the Nike Air Yeezy II and Nike Lunar Orbit...”

— *Acclaim Magazine*



Jefferson

Thomas Jefferson University