

PAIER
COLLEGE

Industrial Design
Engineering Program



BACHELOR OF SCIENCE IN INDUSTRIAL DESIGN ENGINEERING

Program Description

The four-year Bachelor of Science (BS) Degree in Industrial Design Engineering emphasizes conceptualization, design, and creation of products for personal, home, industrial, and commercial use, ranging from domestic and consumer products to medical, entertainment, and more. Students learn to design and develop product concepts, visualize them using the latest computer technology, and build models in a well-equipped model shop or computer lab.

Students learn presentation skills to demonstrate their creative and unique solutions. Advanced industrial design topics include UI/UX, VR, ergonomics, materials & manufacturing, and marketing.

Learning Outcomes (BS in Industrial Design Engineering)

Upon completion of this degree, the student will be able to:

- Identify, analyze, and solve industrial design problems.
- Master the use of design tools, techniques, and concepts in industrial design.
- Demonstrate an understanding of the aesthetics of form development and of the history and current state of design.
- Create projects and portfolio solutions that are culturally appropriate and audience-relevant for the problem as posed by the brief for the project.
- Professionally present their own work, as well as discuss and constructively critique the work of others.

Admissions Requirements

Applicants must possess, at minimum, a high school diploma with at least a 2.0/4.0 GPA. Applicants should have a well-rounded education, gained through general education courses. The Admissions Department will consider writing, speaking, and analytical skills, as demonstrated through high school or collegiate level coursework or professional experience, although professional experience is not a prerequisite for admission. Applicants must submit an application and fee, portfolio, official high school transcript and supporting documents (as requested). Transfer applicants must also submit official transcripts from any/all colleges attended in order to be considered for applied transfer credit(s) at Paier College.

Graduation Requirements

The student must have been admitted as, or have achieved the status of, a matriculated student in the College, and must have attained upper-class or major status.

The student must have completed the last thirty semester hours of work toward their degree under the direct auspices of the College. Under exceptional circumstances, the senior academic administrator may slightly modify this requirement.

The student must present an overall cumulative quality point ratio of at least 2.0 and, in addition, must have a quality point ratio of 2.0 or better in those courses taken for credit in the major. The student must have earned the number of semester hours of credit required by the College and must not deviate from the curriculum as displayed in this catalog without the written approval of the appropriate senior academic administrator or their designee.

BACHELOR OF SCIENCE IN INDUSTRIAL DESIGN ENGINEERING

First Year

Code	Courses	SH/CHW/CHS
<i>Fall</i>		
ADSN 103	2-D Design Principles	3/3/45
ADSN 105	Design Drawing	3/5/75
ADSN 119	Intro to Computer Apps	3/5/75
FYS 101	First Year Seminar	3/3/45
AS 101	English I	3/3/45
AH 105	History of Western Art I	3/3/45
	Fall Semester Total:	18/22/330
<i>Spring</i>		
ADSN 208	3-D Design Principles	3/5/75
ADSN 106	Design Drawing II	3/5/75
ADSN 119B	Introduction to Computer Apps II	3/5/75
AS 102	English II	3/3/45
AS 231	Mathematical Ideas	3/3/45
ADSN 107	Product Lab Orientation	2/3/45
	Spring Semester Total:	17/24/360
	First Year Total	35/48/690

Third Year

Code	Courses	SH/CHW/CHS
<i>Fall</i>		
IDDSN 305	Industrial Design Studio III	3/5/75
ITDSN 312B	Furniture Design II	3/5/75
ADSN 375C	NX Siemens PLM	3/5/75
PH 121	Product Photography	3/5/75
ADDSN 218C	Solidworks III	2/3/45
AS 267	Effective Speaking	3/3/45
	Fall Semester Total:	17/26/390
<i>Spring</i>		
IDDSN 306	Industrial Design Studies IV	3/5/75
IDDSN 218D	Solidworks IV	2/3/45
ADSN 357D	NX Siemens PLM II	3/5/75
ITDSN 311	Exhibition Design	3/5/75
ADSN 245	History of Industrial Design	3/3/45
AS 205	Philosophy	3/3/45
	Spring Semester Total:	17/24/360
	Third Year Total	34/50/750

Second Year

Code	Courses	SH/CHW/CHS
<i>Fall</i>		
IDDSN 255	Industrial Design Studio I	3/5/75
ADSN 205	Design Drawing III	3/5/75
IDDSN 215	Materials/Manufact I	3/5/75
IDDSN 218S	Solidworks I	2/3/45
AS 255	Intro to Biology	3/3/45
	Fall Semester Total:	14/21/315
<i>Spring</i>		
IDDSN 256	Industrial Design Studio II	3/5/75
ADSN 206	Design Drawing IV	3/5/75
IDDSN 216	Materials/Manufact II	3/5/75
IDDSN 218	Solidworks II	2/3/45
AH 305	History of Modern Art	3/3/45
ITDSN 312	Furniture Design I	3/5/75
	Spring Semester Total:	17/26/390
	Second Year Total	31/47/705

Fourth Year

Code	Courses	SH/CHW/CHS
<i>Fall</i>		
IDDSN 355	Industrial Design Studio V	3/5/75
AS 321	Western Civ I	3/3/45
IDDSN 399	Special Projects Portfolio	3/5/75
AS 210	General Psychology	3/3/45
ADSN 233	4D Time Based Media	3/5/75
	Fall Semester Total:	15/21/315
<i>Spring</i>		
IDDSN 356	Industrial Design Studio VI	3/5/75
AS 299	Intro to Creativity & Design	3/3/45
IDDSN 450	New Product Commercial	3/5/75
AS 322	Western Civ II	3/3/45
	Spring Semester Total:	12/16/240
	Fourth Year Total	27/37/555
	Program Total:	127/182/2700

Total Program Semester Hours: 127 Total Program Clock Hour Minimum:27

SH = Semester Hours (credits) per semester CHW=Clock Hours (contact time) per week

CHS= represents Clock Hours per semester (15 weeks)