# BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY INDUSTRIAL DESIGN & PRODUCT DEVELOPMENT TRACK



### INNOVATE. DESIGN. TRANSFORM.

The Industrial Design and Product Development program focuses on equipping students with the knowledge and skills to create innovative, functional, and aesthetically pleasing products. This program integrates design thinking, technology, and market research to develop products that meet user needs while considering manufacturing processes, sustainability, and market trends.

This well-rounded degree can prepare you for jobs such as:

- Product Designer
- Design Engineer
- Design Consultant
- CAD Specialist
- Prototype Developer
- User Experience (UX)
   Designer
- Packaging Designer
- Design Researcher
- Design Manager

### WHY INDUSTRIAL DESIGN & PRODUCT DEVELOPMENT?

- Creative Expression: The program provides opportunities for creative expression and encourages students to bring their innovative ideas to life through tangible product designs.
- Market Relevance: Industrial design and product development play a crucial role in creating competitive products that resonate with consumers in various industries.
- Design Thinking Approach: Students learn to empathize with users, identify their needs, and apply a human-centered approach to create meaningful and user-friendly products.
- Practical Skills: The program emphasizes hands-on learning, allowing students to gain practical skills in sketching, CAD modeling, prototyping, and testing product designs.
- Collaboration Opportunities: Industrial design often involves collaboration with engineers, marketers, and manufacturers, providing opportunities for interdisciplinary teamwork and networking.
- Industry Collaboration: Collaborations with industry partners provide opportunities for internships, industry projects, and networking, enhancing students' career prospects.

### ── WELL-ROUNDED CURRICULUM

### - DEDICATED AND HIGH QUALITY FACULTY

**— EXTENSIVE ENGAGEMENT OPPORTUNITIES** 

### PROGRAM COORDINATOR

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EASTERN ILLINOIS UNIVERSITY

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### **TOTAL MAJOR COURSEWORK: 71 HRS**

#### **REQUIRED CORE COURSEWORK: 53 HRS**

CMG 2953 Statics and Strength of Materials

**EGT 1303** Engineering Technology Applications

EGT 1323 Computers for Engineering Technology

EGI 1323 Computers for Engineering reclinology

EGT 1413 Introduction to Engineering Technology

EGT 2004G Materials Science and Evaluation

EGT 2043 Computer-Aided Engineering Drawing

EGT 2324 Electricity and Electronic Controls

EGT 2424 Manufacturing and Fabrication Processes

**EGT 2773** Safety for Engineering Technology Professionals

EGT 3414 Engineering Technology Project Management

**EGT 4503** Engineering Technology Cost Analysis

EGT 4704 Engineering Technology Capstone

EGT 4753 Lean Manufacturing

EGT 4843 Statistical Quality & Reliability

EGT 4943 Manufacturing Management

**ODL 4835** Supervision in Organizations

### **INDUSTRIAL DESIGN & PRODUCT DEVELOPMENT: 18 HRS**

EGT 3063 3D Modeling

EGT 3663 CNC & Rapid Prototyping

EGT 3703 Machine Design

EGT 4903 OSHA Certification for General Industry

### + SELECT 6 HOURS OF THE FOLLOWING:

**DGT 1363** Graphics Technology

DGT 2123 Digital Photography

DGT 3313 3D Modeling for Digital Media

CIT 4843 Human Computer Interaction

EGT 4803 Plant Layout & Material Handling

EGT 3103 Robots & Control Systems

EGT 3763 Automation & Data Capture

TEC 4275 Internship. Credits: 1 to 10

EMPLOYMENT OF INDUSTRIAL DESIGNERS



IS PROJECTED TO GROW FROM 2021 TO 2031,



#### SUGGESTED 4-YEAR SEQUENCE

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FALL YEAR 1 SPRING			
EGT 1303 EGT 1323 EGT 1413 ENG 1001G Humanities	3 3 3 3	Fine Arts EGT 2043 EGT 2004G ENG 1002G Social & Behavioral	3 3 4 3 3
Total	15	Total	16
FALL YEAR 2 SPRING			
EGT 2324 CMG 2953 EGT 2773 CMN 1310G Humanities/Fine Arts	4 3 3 3 3	Social & Behavioral EGT 2424 Social & Behavioral Biological Science Math	3 4 3 3 3
Total	16	Total	16
FALL YEAR 3 SPRING			
ODL 4835 EGT 3414 EGT 3063 *Even years DGT 1363 Elective	3 4 3 3 3	EGT 4503 *Odd years EGT 4753 *Odd years EGT 4843 EGT 3663 *Odd years Elective	3 3 3 3
Total	16	Total	15
FALL YEAR 4 SPRING			

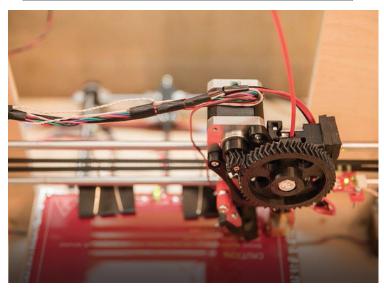
EGT 4943

Fine Arts

Elective

Elective

EGT 3763 \* Odd years



3

3

3

3

15

Total

EGT 4704 \* Even years

EGT 3703 \*Even years

EGT 4903 \*Even years

Elective

3

13

Total