

IDT

Courses

IDT 100 Introduction to Industrial Design

3 Credits. 2 Lecture Hours. 2 Lab Hours.

An overview of the industrial design field. Students explore the design process through a semester-length simulated product design exercise.

Prerequisites: None

IDT 105 Rapid Visualization Techniques

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on concept sketching. Topics include: hand sketching using scaled perspective and pencil and technical pen and marker rendering techniques to generate, communicate, and present ideas graphically.

Prerequisites: None

IDT 120 Materials and Manufacturing Processes

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on state-of-the-art production materials and methods employed in product manufacturing. Topics include: materials science, strength analysis, and selection procedures.

Prerequisites: None

IDT 125 Human Factors

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on principles for designing safe, functional, and ergonomically pleasing products.

Prerequisites: IDT 100, IDT 105

IDT 150 Computer Modeling

3 Credits. 2 Lecture Hours. 2 Lab Hours.

An introduction to creating, editing, and manipulating accurate 3D surface and solid models for graphic visualization, using advanced surfacing software.

Prerequisites: IDT 100, IDT 105

IDT 191 Part-Time Cooperative Education 1: Industrial Design Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

IDT 192 Part-Time Cooperative Education 2: Industrial Design Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IDT 191

IDT 193 Part-Time Cooperative Education 3: Industrial Design Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IDT 192

IDT 194 Part-Time Cooperative Education 4: Industrial Design Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IDT 193

IDT 195 Part-Time Cooperative Education 5: Industrial Design Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IDT 194

IDT 196 Part-Time Cooperative Education 6: Industrial Design Technology**1 Credit. 1 Lecture Hour. 20 Lab Hours.**

Students seeking an associate's degree participate in their sixth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IDT 195

IDT 198 First Year Special Topics in Industrial Design Technology**1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A course on selected topics related to Industrial Design Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

IDT 199 First Year Independent Project in Industrial Design Technology**1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A project related to Industrial Design Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Industrial Design Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval

IDT 210 Model Making and Prototyping**3 Credits. 2 Lecture Hours. 2 Lab Hours.**

A course on fabricating models and prototypes. Topics include: the importance of 3D visualization of the design for a product, and applying technologically advanced tools and methods.

Prerequisites: IDT 120, IDT 150, MET 131

IDT 220 IDT CNC & CAD-CAM**4 Credits. 3 Lecture Hours. 2 Lab Hours.**

A course on part fabricating fundamentals. Topics include: metal removing processes; turning, facing, milling, and drilling; materials and tooling; manufacturing with plastics and composites; and using CAD files and CAM software to create a program for producing parts on a CNC machine.

Prerequisites: IDT 120, MET 131

IDT 290 Industrial Design Technology Capstone**3 Credits. 2 Lecture Hours. 3 Lab Hours.**

Students complete the design of a product from concept to prototype, and present the finished project to a panel of reviewers.

Prerequisites: IDT 210, IDT 220

IDT 291 Full-Time Cooperative Education 1: Industrial Design Technology**2 Credits. 1 Lecture Hour. 40 Lab Hours.**

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

IDT 292 Full-Time Cooperative Education 2: Industrial Design Technology**2 Credits. 1 Lecture Hour. 40 Lab Hours.**

Students seeking an associate's degree participate in their second full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IDT 291

IDT 293 Full-Time Cooperative Education 3: Industrial Design Technology**2 Credits. 1 Lecture Hour. 40 Lab Hours.**

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IDT 292

IDT 294 Internship 1: Industrial Design Technology**2 Credits. 1 Lecture Hour. 40 Lab Hours.**

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IDT 100

IDT 295 Internship 2: Industrial Design Technology**2 Credits. 1 Lecture Hour. 40 Lab Hours.**

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: IDT 294

IDT 298 Second Year Special Topics in Industrial Design Technology**1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A course on selected topics related to Industrial Design Technology, which gives students opportunities to study information not currently covered in other courses. Grades issued are A, B, C, D, or F.

Prerequisites: Instructor Approval

IDT 299 Second Year Independent Project in Industrial Design Technology**1-9 Credits. 0 Lecture Hour. 0 Lab Hour.**

A project related to Industrial Design Technology that is completed by one or more students to meet specific educational goals. Projects must have prior approval and supervision by Industrial Design Technology faculty. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: Instructor Approval