

# DES Classes

Refer to [Bear Tracks](#) for the current schedule (term, days and times) these courses are offered.

## **First Year DES Fundamentals**

### **Registration dates and other info:**

Restricted to BA Art & Design and BEd Art majors until July 31. Open to BA Art & Design and BEd Art minors starting on August 1. Open to all other Art & Design minors starting on August 15. All other students may contact [artdesug@ualberta.ca](mailto:artdesug@ualberta.ca) after September 1 to request manual registration where space allows. Students are advised to register in sections of ART 134 and DES 135 in alternate terms of the same year. Online registration in ART 134 will close one hour after the second class has commenced. Students must be registered and in attendance during the second class in order to continue in the course.

### **DES 135 Design Fundamentals (non-BFA/BDES)**

3 credits. Studio-based introduction to the conceptual and practical concerns of the design disciplines. Two- and three-dimensional design-related studies. Note: ART 134 and DES 135 are required prerequisites for senior-level ART or DES courses.

### **DES 138 Design Fundamentals I (BFA/BDES only)**

3 credits. Studio-based introduction to the conceptual and practical concerns of the design disciplines. Two- and three-dimensional design-related studies. Note: Restricted to BFA and BDesign students - no exceptions.

### **DES 139 Design Fundamentals II (BFA/BDES only)**

3 credits. Further study of the conceptual and practical concerns of the design disciplines. Two- and three-dimensional design-related studies. Note: Restricted to BFA and BDesign students - no exceptions. Prerequisite: DES 138.

## **Senior Level DES studio classes**

### **Registration dates and other info:**

Restricted to BFA and BDes students until April 30th. Online registration access is closed to all students May 1 - June 30th. Online registration opens to BA Art & Design majors beginning July 2 (Year 5), July 3 (Year 4), July 4 (Year 3) and July 5 (Years 2 and 1). BEd Art majors gain registration access beginning July 15th. BA and BEd Art & Design minors gain registration access on August 1st. Art & Design minors in all other faculties gain registration access on August 15th. All other students may contact [artdesug@ualberta.ca](mailto:artdesug@ualberta.ca) after September 1 to request manual registration in classes for which they have the prerequisites.

BA and BEd Art & Design majors may register themselves in no more than 6 credits of senior level ART and/or DES classes per term. Art & Design minors may register themselves in no more than 3 credits of senior level ART and/or DES classes per term. For help with additional courses where space permits, email [artdesug@ualberta.ca](mailto:artdesug@ualberta.ca) with course request on or after your Art & Design registration period begins (see above).

Students must ensure that they have the necessary prerequisite courses and grades in order to register themselves. (An averaged grade of at least B- is required in prerequisite courses.) Students missing prerequisite courses and grades will be removed without notice.

Online registration in all ART and DES classes will close one hour after the second class has commenced. Students must be registered and in attendance during the second class in order to continue in the course.

# Industrial Design

\*\*Students wishing to study Industrial Design MUST register in the following four Industrial Design courses as prerequisites for the 400-level:

## **DES 300 Foundations of Industrial Design I**

3 credits. Introduction to the principles, methods and techniques of industrial design. Studies of three-dimensional design address concept, form and function in a social/environmental context and involve projects combining theory and practice in two and three dimensions. Prerequisites: ART 134 and DES 135 or ART 136 and DES

138. Corequisite: DES 302 and consent of Department. BDes Students must enroll in DES 301 in second term.

## **DES 301 Foundations of Industrial Design II**

3 credits. Continuing study of the principles, methods and techniques of industrial design. Studies of three-dimensional design address concept, form and function in a social/environmental context and involve projects combining theory and practice in two and three dimensions. Prerequisites: DES 300. Corequisite: DES 303 and consent of Department.

## **DES 302 Introduction to Visual Presentation I**

3 credits. Introductory studies in models and graphics-based projects implementing the materials and processes of traditional visualization methods and media. Prerequisite: DES 300 and consent of the Department. BDes students must enroll in DES 303 in second term.

## **DES 303 Introduction to Visual Presentation II**

3 credits. Continuing studies in models and graphics-based projects implementing the materials and processes of traditional visualization methods and media. Prerequisites: DES 302. Corequisite: DES 301 and consent of the Department.

## **DES 400 - Intermediate Industrial Design Principles and Practices I**

3 credits. Subject areas include research methods and the design processes; communication skills and collaborative dynamics, human factors, the psychology of design, material properties and applications for fabrication and production, market considerations. Projects are 2-D, 3-D and computer-based. Prerequisites: DES 300, 301, 302 and DES 303 or consent of the Department. BDes Students must enroll in DES 401 in second term. Note: Not open to students with credit in DES 470.

## **DES 401 - Intermediate Industrial Design Principles and Practices II**

3 credits. Subject areas include research methods and the design processes; communication skills and collaborative dynamics, human factors, the psychology of design, material properties and applications for fabrication and production, market considerations. Projects are 2-D, 3-D and computer-based. Prerequisites: DES 400 or consent of the Department. Note: Not open to students with credit in DES 470.

## **DES 402 - Product Design Principles and Practices I**

3 credits. A studio-based course which implements design principles and practices with a focus on their application to product design for batch production and mass production. Experimentation and concept development with computer technology. 2-D media and 3-D models and mock-ups. Prerequisite or corequisite: DES 400 or consent of the Department. Note: Not open to students with credit in DES 475.

## **DES 403 - Furniture Design Principles and Practices I**

3 credits. A studio-based course which implements design principles and practices with a focus on their application to furniture design for batch production and mass production. Experimentation and concept

development with computer technology. 2-D media and 3-D models and prototypes. Prerequisite or corequisite: DES 400 or consent of the Department. Note: Not open to students with credit in DES 477.

### **DES 500 - The Practice of Industrial Design I**

3 credits. Subject areas include design and culture; human factors; social, environmental and economic implications of design; appropriate technologies; production considerations processes; communication skills and collaborative dynamics; human factors; the psychology of design; material properties and applications for fabrication and production; market considerations. Projects are 2-D, 3-D and computer-based. Prerequisites: DES 401 or consent of the Department. BDes Students must enroll in DES 501 in second term. Note: Not open to students with credit in DES 570.

### **DES 501 - The Practice of Industrial Design II**

3 credits. Subject areas include design and culture; human factors; social, environmental and economic implications of design; appropriate technologies; production considerations processes; communication skills and collaborative dynamics; human factors; the psychology of design; material properties and applications for fabrication and production; market considerations. Projects are 2-D, 3-D and computer-based. Prerequisites: DES 500 or consent of the Department Note: Not open to students with credit in DES 570.

### **DES 502 - Product Design Applications and Technologies**

3 credits. A studio-based course in which projects address the requirements of special user groups and specific markets with special consideration of the production capabilities of western Canada. Computer-aided design and manufacturing will be the focus of at least one project. Prerequisite: DES 402. Pre- or corequisite: DES 500 or consent of the Department. Note: Not open to students with credit in DES 575.

### **DES 503 - Furniture Design Applications and Production Technologies**

3 credits. A studio-based course in which projects address the requirements of special user groups and specific markets with special consideration of the production capabilities of western Canada. Computer-aided design and manufacturing will be the focus of at least one project. Prerequisite: DES 403. Pre- or corequisite: DES 501 or consent of the Department. Note: Not open to students with credit in DES 576.

## **Integrative Design**

### **DES 483 - Seminar on Design Issues**

3 credits. Contemporary design concerns in the fields of theory, criticism, history, professional practice and social issues. Restricted to third-year Bachelor of Design students. Prerequisite(s): HADVC 209 or consent of the Department.

## **Printmaking for designers - Word and Image**

### **DES 425 - Word and Image: Intermediate Projects in Printmaking for Designers and Artists**

6 credits. Exploration of the multiple relationships between word and image generated through consideration of text. Prerequisites: ART 322, ART 323 and DES 394 or consent of the Department. Note: ART 425, ART 525, DES 425 and DES 525 will be taught in conjunction. Not open to students who have successfully completed ART 425. Full year course; students must register in Part A (Fall) and Part B (Winter)

### **DES 525 - Word and Image: Advanced Projects in Printmaking for Designers and Artists**

6 credits. Exploration of the multiple relationships between word and image generated through consideration of text. Prerequisite: DES 425 or ART 425. Note: ART 425, ART 525, DES 425 and DES 525 will be taught in conjunction. Not open to students who have successfully completed ART 525. Full year course; students must register in Part A (Fall) and Part B (Winter)

## **Visual Communication Design**

### **DES 393 - Visual Communication Design Foundations I**

3 credits. Understanding and applying the principles of visual communication design. Study of communication concerns through the use type and image creation. Emphasis on appropriateness, clarity, expression and description to meet defined objectives in print and digital media. Introduction to design research methods. Prerequisites: ART 134 and DES 135, or ART 136 and DES 138, or consent of the Department. Note: Not open to students with credit in DES 390.

### **DES 394 - Visual Communication Design Foundations II**

3 credits. Continued study of the principles of visual communication design. Introduction to visual principles for web and motion design. Emphasis on appropriateness, clarity, expression and description to meet defined objectives in print and digital media. Integration of social design themes. Continued introduction to design research methods. Prerequisites: DES 393, or consent of the Department. Note: Not open to students with credit in DES 390.

### **DES 395 – Design Research Methods I**

3 credits. Introduction to design research, including methods, processes and outcomes. Exploring systems and service design. Includes collecting data, experimenting with design research methods, practice, and evaluation. Focus on identifying and defining needs and issues. Prerequisite or corequisite: DES 393 or consent of the Department.

### **DES 396 – UX/UI Design I**

3 credits. Introduction to user experience (UX) and user interface (UI) design including topics such as navigation, interaction design, human-centered design, and testing. Prerequisite: DES 393 or consent of the Department.

### **DES 493 - Visual Communication Design Intermediate I**

3 credits. Development of concepts, strategies and systems. Problem identification. Using design research methods to address social design themes. Applying principles of website, interaction design and user interface design. Prerequisites: DES 393 and one of DES 394, 395 or 396 or consent of the Department. BDes Students must enroll in DES 494 in the second term. Note: Not open to students with credit in DES 490

### **DES 494 - Visual Communication Design Intermediate II**

3 credits. Further emphasis on complex system design. Design for accessibility. Application of research skills and interaction design. Exploration of design and testing research methods. Prerequisites: DES 493 or consent of the Department. Note: Not open to students with credit in DES 490.

### **DES 495 - Imagery for Communication**

3 credits. Further studies in the use of photographic and illustrative imagery in the design context. Representation, description, expression and persuasion as the communicative function of the image.

Prerequisites: DES 393 and one of DES 394, 395 or 396 or consent of the Department. Note: while not required, taking DES 493 before or at the same time as DES 495 is recommended.

### **DES 496 – UX/UI Design II**

3 credits. Assessment, research, navigation, usability, accessibility, user testing and interaction design. Focus on users, UX/UI tools and development techniques. Experimentation with digital experience. Topics may include assessing websites, design landing pages, microsites, digital experience, and audience personas. Prerequisites: DES 493 and DES 396 or consent of the Department. Note: while not required, taking DES 494 before or at the same time as DES 496 is recommended.

### **DES 497 - Advanced Typography**

3 credits. Typographic design for language communication, expression, and interaction. Topics may include the history of letterforms, history of printing, publication design and type on screen. Prerequisite or corequisite DES 493 or consent of the Department.

### **DES 498 - Information Design**

3 credits. Interpretation and visualization of information. Procedural instructions, mapping, and diagramming. Perception and cognition. Design and testing for user experience. Visual presentation of abstract and quantitative information. Prerequisite or corequisite: DES 494 or consent of the Department.

### **DES 593 – Visual Communication Design Advanced I**

3 credits. Applied practical projects and complex design systems. Problem definition, strategic planning, project management, and design evaluation. Project briefs and production specifications, professional practice, procedures, codes of ethics, copyright and intellectual property. Prerequisites: DES 494 or consent of the Department. BDes students must enroll in DES 594 in the second term. Note: not open to students with credit in DES 590.

### **DES 594 - Visual Communication Design Advanced II**

3 credits. Applied practical projects and complex design systems. Problem definition, strategic planning, project management and design evaluation. Project brief and production specifications, professional practice, procedures, codes of ethics and intellectual property. Topics may include self-directed design research projects. Prerequisite: DES 593 or consent of the Department. Note: not open to students with credit in DES 590.

### **DES 595 - Service Design**

3 credits. Use of service design methods for the development of physical or digital products. Utilize tools such as journey maps and personas. Explore user-centred and collaborative approaches to create services and experiences. Prerequisite: DES 494 or DES 401 or consent of the Department. Note: while not required, taking DES 395 before DES 595 is recommended.

### **DES 596 - UX/UI Design III**

3 credits. Design issues in digital media. Emphasis on user experience, with focus on tools and development techniques to visualize UI/UX projects. Usability and accessibility. Experimenting with UX/UI tools and development techniques. Prerequisite DES 496. Prerequisite or corequisite: DES 593 or consent of the Department. Not open to students with credit in DES 595 prior to 2007.

### **DES 597 - Design Management**

3 credits. Goal setting, creative collaboration, working in a team environment, project tracking, and administration. Brand management and identity application. Pre- or corequisite: DES 593 or DES 500 or consent of the Department.