

SCHOOL OF DESIGN AND ARTS-ENVIRONMENT STUDIES CLUSTER
SPECIFIC COURSE REQUIREMENTS FOR ONLINE COURSES
2nd TERM AY 2020-2021



virtual benilde

Students will manage with a standard desktop computer or laptop (with camera, speaker and microphone), any word processing tool, spreadsheet program, & presentation software, and reliable internet connection. In addition, the following courses, however, require a little bit more because of its nature. You will need to have these before the term begins in January 2021. For inquiries and clarifications, please email your respective Program Chairperson whose contact information is at the end of this document.

NOTE: ALL Physical Education Courses (i.e. PEONEPF, PETWODA, PETRIID and PEFORTS) and most laboratory courses conducted online will require a **notarized waiver agreement** and a copy of any valid ID of your parent/guardian (e.g. driver's license, passport bio-page, Senior Citizen's card, other government IDs). You may use one (1) waiver covering all other courses enrolled in so long as all the relevant Course Codes are listed on the first paragraph. Please request for a copy of the waiver agreement from your respective Program Chairperson.

SDA-ESC
ARCHITECTURE

(PURPCOM) Purposive Communication

- Scanning app for documentation

(ARPHILO) Philosophy of Architecture

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(DI-CALC) Differential and Integral Calculus

- Scientific Calculator
- Scanning app for documentation
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(HSTAR02) History of Architecture 2: Romanesque to Baroque Architecture

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(ARVCOM2) Architectural Visual Communications 2: Visual Techniques 1

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(PETWODA) Dance Area

- Scanning app for documentation
- Waiver Agreement

(BIBCHUR) Bible and Church

- Scanning app for documentation

(ARCHNTR) Architectural Interiors

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(TOARCH2) Theory of Architecture 2

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(ARCD01) Architectural Design 1- Introduction to Design

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(BLDTEC2) Building Technology 2: Construction Detailing in Wood, Steel and Reinforced Concrete (2-Storey Bldg)

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(BUILDU1) Building Utilities 1 - Plumbing and Sanitary System

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(HSTAR04) History of Architecture 4: The Advent of the High Rise Typology and Modernism

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(ARVCOM4) Architectural Visual Communications 4: Visual Techniques 2

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
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SDA-ESC
ARCHITECTURE

(PETRIID) Individual/Dual Sports

- Scanning app for documentation
- Waiver Agreement

(NSTP-01) National Service Training Program-01

- Scanning app for documentation

(INTEFIL) Interaktibong Filipino sa Multi-disiplinaryong Larangan

- Scanning app for documentation

(ARCD504) Architectural Design 4-Space Planning 1

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(BLDTEC4) Building Technology 4-Specification Writing and Quantity Surveying

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(ENGSCI2) Engineering Science 2: Strength of Materials

- Scientific Calculator
- Scanning app for documentation

(PROPR1) Professional Practice 1-Laws Affecting the Practice of Architecture

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(PLANIN2) Planning 2-Fundamentals of Urban Design and Community Architecture

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(ARCHAD-2) Architectural CAD 2: Autodesk Revit and ArchiCAD BIM

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(ARTSRUC) Architectural Structures

- Scientific Calculator
- Scanning app for documentation
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(PROPR2) Professional Practice 2 – Administration & Regular Architectural Services

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(PLANIN2) Planning 2 - Fundamentals of Urban Design and Community Planning

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(BLDTEC5) Building Technology 5-Alternative Building Construction Systems

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(ARCD507) Architectural Design 7-Community Architecture and Urban Design

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(SPECZ-1) Specialization 1 (Elective 1)

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(ARCHCAD) Architectural CAD 02

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(ORALCOM) Oral Communications

- Scanning app for documentation

(PROPR3) Professional Practice 3: Global Practice for the 21st Century

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

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SDA-ESC
ARCHITECTURE

(PLANIN3) Planning 3: Introduction to Urban and Regional Planning

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(ARSERCH) Research Methods for Architecture

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)

(SPECZ-2) Specialization 2 (Elective 2)

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(ARCD08) Design of Complex Structures

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Waiver Agreement

(POLIGOV) Political Governance

- Scanning app for documentation

(INSOCIO) Introduction to Sociology

- Scanning app for documentation

(NATSCA2) Environmental Factors in Design

- Scanning app for documentation

(ARCHCOM) Architectural Comprehensive Review 1-4th year subjects

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)

SPECZ-3 (CONSMAN) Construction and Project Management

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)

(ARCD09) Thesis Research Writing

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(APRENTC-OJT) OJT - Apprenticeship Program

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)

(TAXAGRE) Agrarian Reform and Taxation

- Scanning app for documentation

(JOSERIZ) Jose P. Rizal

- Scanning app for documentation

(CSBGRAD) College of Saint Benilde Graduating Students

- Scanning app for documentation

(HOUSING) Housing Principles

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

SPECZ-4 (FINOMAN) Financial and Operations Management

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)

(ARCD010) Thesis Application and Defense

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(PERSPEC) Perspective Drawings/ Visual Communications 2

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(ARCHINT) Architectural Interiors

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(TROPDES) Tropical Design

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(HSTARC3) History of Architecture 3

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
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**SDA-ESC
ARCHITECTURE**

(HSTARC4) History of Architecture 4

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(SOLMENS) Solid Mensuration/ Solid Geometry

- Scientific Calculator
- Scanning app for documentation
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(ANALGEO) Analytic Geometry

- Scientific Calculator
- Scanning app for documentation
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)

(AFREHND) Free hand Drawing (Visual Techniques 1)

- Scientific Calculator
- Scanning app for documentation
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

(ACOLRND) Color Theories & Rendering Techniques (Visual Techniques 2)

- Scanning app for documentation
- Sketchup (student edition)
- AutoCADD (student edition)
- Adobe Photoshop (student edition)
- Drafting Materials (e.g. paper, pencil, pen, ruler, triangles, etc.)
- Waiver Agreement

**SDA-ESC
INDUSTRIAL DESIGN**

(IDPRAC1) Professional Design Practice

- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet
- Optional: Basic Graphic Software (Adobe CC - Photoshop or Illustrator, or any online graphic-making app)

(IDTHES2) Design Solution and Development of Thesis

- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet
- Optional: Basic Graphic Software (Adobe CC - Photoshop or Illustrator, or any online graphic-making app)
- Waiver Agreement

(DPRODMA) Production and Operations Management in Manufacturing Industries

- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet

(DSTRAMA) Strategic Marketing in Design Practice

- For presentation and documents: Google Drive/ Slides/Forms, Prezi or Keynote
- For online meetings: Zoom or Google Meet
- Any drawing materials

(IDLEC-D) Elective Course on Design Trends

ROBOTIX (Robotics and Mechatronics)

- Hi-powered laptop/desktop/tablet
- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet
- For Software: Arduino IDE
- Waiver Agreement

(IDLEC-M) Elective Course on Manufacturing Industries

MPROCESS (Manufacturing Process and Technology)

- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet

(IDLEC-B) Elective Course on Business Development

INNOVED (Innovative Ventures in the Design industry)

- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet

(IDDRAW2) Drawing 2: Anthropometric and Product Rendering

- Optional: Scanner
- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet
- Optional: Basic Graphic Software (Adobe CC - Photoshop or Illustrator, or any online graphic-making app)
- Sketching and rendering tools: pencil HB grades, black ball pen, kneaded eraser, watercolors, poster colors, to acrylic color sets.

(IDHIST1) Industrial Design History 1: Pre-Twentieth Century

- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet
- Optional: Basic Graphic Software (Adobe CC - Photoshop or Illustrator, or any online graphic-making app)
- Any drawing materials

(THREED1) 3-D Design 1: Rectilinear and Curvilinear Volume

- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet
- (May be bought online or if there be any hardware store) Clay and molding materials. Board paper types: cardboard, bristol board, construction paper, stapler, glue gun and pellets. Contact supplier: FB Joli's Espana and Joli's P. Noval. (they deliver) España - (02) 8- 731 - 6558; P. Noval - (02) 8- 733-9530
- Waiver Agreement

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SDA-ESC
INDUSTRIAL DESIGN

(TWOSES2) 2-D Design 2: Advanced Color and Composition

- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet
- Optional: Basic Graphic Software (Adobe CC - Photoshop or Illustrator, or any online graphic-making app)
- Sketching and rendering tools: pencil HB grade, black ball pen, kneaded eraser, watercolors, poster colors, acrylic color set, and different types of brushes

(IDRAFT1) Basic Drafting Techniques

- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet
- Optional: Basic Graphic Software (Adobe CC - Photoshop or Illustrator, or any online graphic-making app)
- A3 paper and A2 tracing paper, T-square, 45-degree triangle, 30/60 degree triangle, compass set with adaptor, HB 0.5mm mechanical pencil, 4H 0.5mm mechanical pencil, 1/2" Magic Tape, Pen eraser, erasing shield, protractor, circular and curve templates, 30-degree ellipse template, metric triangular scale

(ENGMECX) Engineering Mechanics for Industrial Design Students

- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet
- Project 1: Drinking straws, rubber bands, water bottle
- Project 2: Marbles, spoon and/or bottle cap, rubber bands, sticks/wooden bar, binding element

(THREED3) 3-D Design 3: Form and Space

- For presentation and documents: Google Drive/ Slides /Forms
- For online meetings: Zoom or Google Meet
- For Software: Any preferred 3D making software. Adobe CC - Photoshop or Illustrator, or any open-source online graphic-making app
- (May be bought online or if there be any hardware store) Soft charcoal, G.I copper wire, needle-nose pliers, Board paper types: cardboard, bristol board, construction paper, stapler, glue gun and pellets. Optional are metal or styrene. Contact supplier: FB Joli's Espana and Joli's P. Noval. (they deliver) España - (02) 8- 731 - 6558; P. Noval - (02) 8- 733-9530
- Waiver Agreement

(IDMATL2) ID Materials 2: Wood and Organics

- For presentation and documents: Google Drive/ Slides /Forms
- For online meetings: Zoom or Google Meet
- Optional, For Software: Any preferred 3D making software. Adobe CC - Photoshop or Illustrator, or any open-source online graphic-making app
- Drawing and prototyping materials (paper, clay, stone). Denim apron or something studier like a tarpaulin material for all laboratory projects; eye-protection mask; cutting materials and boards for shaping tools for
- wood materials. Wood supplies.
- Waiver Agreement

(BASICAD) Basic Drafting Techniques in CAD

- High-powered desktop/laptop
- For presentation and documents: Google Drive/ Slides /Forms
- For online meetings: Zoom or Google Meet
- For Software: AutoCAD

(PRODMAR) Product Marketing in Design Practice

- For presentation and documents: Google Drive/ Slides /Forms, Prezi, or Keynote
- For online meetings: Zoom or Google Meet
- For Software: Adobe CC - Photoshop or Illustrator, or any open-source online graphic-making app
- Any drawing materials

(PRODCT1) Product Workshop 1: Structural Packaging and Tabletop Accessories

- High-powered desktop/laptop/tablet
- For presentation and documents: Google Drive/ Slides /Forms
- For online meetings: Zoom or Google Meet
- For Software: Any preferred 3D making software. Adobe CC - Photoshop or Illustrator, or any open-source online graphic-making app
- Refer to class-agreed materials for rough prototyping
- Waiver Agreement

(PRODCT3) Product Workshop 3: Ergonomics and Consumer Products

- High-powered desktop/laptop/tablet
- For presentation and documents: Google Drive/ Slides /Forms
- For online meetings: Zoom or Google Meet
- For Software: Any preferred 3D making software. Adobe CC - Photoshop or Illustrator, or any open-source online graphic-making app
- Refer to class-agreed materials for rough prototyping
- Waiver Agreement

(PRODCT4) Product Workshop 4: Furniture and Basketry

- High-powered desktop/laptop/tablet
- For presentation and documents: Google Drive/ Slides /Forms
- For online meetings: Zoom or Google Meet
- For Software: Any preferred 3D making software. Adobe CC - Photoshop or Illustrator, or any open-source online graphic-making app
- Refer to class-agreed materials for rough prototyping
- Waiver Agreement

(PRODCT5) Product Workshop 5: Mobility Design

- High-powered desktop/laptop/tablet
- For presentation and documents: Google Drive/ Slides /Forms
- For online meetings: Zoom or Google Meet
- For Software: Any preferred 3D making software. Adobe CC - Photoshop or Illustrator, or any open-source online graphic-making app
- Refer to class-agreed materials for rough prototyping
- Waiver Agreement

(ENGICAD) Advanced Drafting Techniques in Engineering CAD

- High-powered desktop/laptop
- For presentation and documents: Google Drive/ Slides/ Forms
- For online meetings: Zoom or Google Meet
- For software: Solidworks

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SDA-ESC
INDUSTRIAL DESIGN

(IDVIPRE) Oral Visual Presentation in Design Practice

- High powered PC/Laptop: at least i7 processor, 4GB RAM
- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet
- For Graphics and Video: Adobe CC - Photoshop, Illustrator, Premiere, or any open-source online graphic and video-making app.

(IDLAB-S) Industrial Design Lab Work with Sustainable Materials

- High powered Laptop/ Desktop/ Tablet
- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet
- For Software: Any preferred 3D making software. Adobe CC - Photoshop or Illustrator, or any open-source online graphic-making app
- Any drawing materials
- Waiver Agreement

(IDCRAFT) Design Workshop: Crafts Manufacturing

- High powered Laptop/ Desktop/ Tablet
- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet
- For Software: Any preferred 3D making software. Adobe CC - Photoshop or Illustrator, or any open-source online graphic-making app
- Any drawing materials
- Waiver Agreement

(LABSAFE) Laboratory Use and Safety

- High powered Laptop/Desktop/Tablet
- For presentation and documents: Google Drive/Slides/Forms
- For online meetings: Zoom or Google Meet
- Refer to class agreed tools and materials

(STRENGT) Strength of Materials for Products

- For presentation and documents: Google Drive/ Slides/Forms, Prezi or Keynote
- For online meetings: Zoom or Google Meet
- Any drawing materials
- Waiver Agreement

(OBJECTX) Design Workshop: Consumer Products

- High powered Laptop/ Desktop/ Tablet
- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet
- For Software: Any preferred 3D making software. Adobe CC - Photoshop or Illustrator, or any open-source online graphic-making app
- Refer to class-agreed materials for rough prototyping
- Waiver Agreement

(SPATIAL) Design Workshop: Environment

- High powered Laptop/ Desktop/ Tablet
- For presentation and documents: Google Drive/ Slides/Forms
- For online meetings: Zoom or Google Meet
- For Software: Any preferred 3D making software. Adobe CC - Photoshop or Illustrator, or any open-source online graphic-making app
- Refer to class-agreed materials for rough prototyping
- Waiver Agreement

(VISCOMM) Visual Communication and Art Direction in Product Marketing

- High powered Laptop/Desktop/Tablet
- For presentation and documents: Google Drive/Slides/Forms
- For online meetings: Zoom or Google Meet
- For Graphics and Video: Adobe CC - Photoshop, Illustrator, Premiere, or any open source online graphic and video making app.

SDA-ESC
INTERIOR DESIGN

(HSTIND2) History of Interior Design 2: Period Styles

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting and Rendering Materials e.g. paper, sketchpad, pencil, pen, ruler, triangles, etc.; Rendering Medium of your choice (water color, colored pencils, markers, etc.); any A4 size paper that will work best with your choice of rendering medium); ruler/triangles

(INTPRIN) Principles and Theory of Interior Design

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting and Rendering Materials eg. paper, sketchpad, pencil, pen, ruler, triangles, etc.

(INTDRW2) Freehand Drawing II - Colored Perspectives

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting Board/Table, Drafting Materials: Pencils: 3H, H, HB, 2B, 6B (Staedtler, Collen, Faber Castell); Metric Scale; Meter Tape (5Meters); masking tape or magic tape; eraser (kneaded and regular eraser); T-Square (Rotring or any brand); 20 sheets graphing paper (9x12) ; 20x30 tracing paper (80/85 GSM); 30/60 triangle and 45/90 Triangles; compass, protractor

(INTDRND) Color Rendering

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- 9 x12 300 GSM Watercolor paper (canson, montval); Prang watercolor (at least 4 different sizes round watercolor brushes; Drafting materials (pencils, pens, ruler, triangles, compass, protractor, metric scale)

(INDCAD2) Perspective Drawing 3D CAD Modeling

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting and Rendering Materials eg. paper, pencil, pen, ruler, triangles, etc.

(HSTIND4) History of Philippine Arts & Interiors

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting and Rendering Materials eg. paper, sketchpad, pencil, pen, ruler, triangles, etc.

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SDA-ESC
INTERIOR DESIGN

(ACCEDES) Accessories Design

- Desktop PC/Laptop with reliable internet connection. Video Camera/Camera phone with video capability. Scanning App for documentation
- Internet browser, MS Word/Powerpoint/Keynote, Sketchup (Student Edition), AutoCADD (Student Edition), and Adobe Photoshop (Student Edition)
- Drafting and Rendering Materials, eg. paper, sketchpad, pencil, pen, ruler, triangles, etc.
- Waiver Agreement

(INTDSI2) Special Problems in Domesticity

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting Board/Table, Drafting Materials: Pencils: 3H, H, HB, 2B, 6B (Staedtler, Collen, Faber Castell); Metric Scale; Meter Tape (5Meters); masking tape or magic tape; eraser (kneaded and regular eraser); T-Square (Rotring or any brand); 20 sheets graphing paper (9x12) ; 30 sheets 20x30 tracing paper (80/85 GSM); 30/60 triangle and 45/90 Triangles; Technical pens (0.1, 0.3, 0.5, 0.8 --recommended is Rotring or Staedtler, other options are UNI or Artline); Coloring materials (water color, colored pencils, 1 sete markers; vellum paper; water color paper; canson Mi Teintes

(INTCON1) Interior Design Construction 1

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting Board/Table, and Rendering Materials e.g. vellum, tracing/hopia paper, sketchpad, pencil, pen, ruler, triangles, etc.

(FURDSC1) Furniture Design and Construction 1

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Waiver Agreement

(INTBLDU) Interior Design Building Utilities

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)

(INTCON2) Interior Construction Detailing

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)

(FURDSC2) Furniture Design and Construction 2

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting Board/Table, and Rendering Materials e.g. vellum, tracing/hopia paper, sketchpad, pencil, pen, ruler, triangles, etc.
- Waiver Agreement

(INTDSI4) Hospitality and Restaurant Design

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting Board/Table, and Rendering Materials e.g. vellum, tracing/hopia paper, sketchpad, pencil, pen, ruler, triangles, etc.

(INTDSI5) Institutional and Office Design

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting and Rendering Materials for schematics e.g. paper, sketchpad, pencil, pen, ruler, triangles, etc.

(INTDRES) Research Project in Interior Design

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting and Rendering Materials for schematics e.g. paper, sketchpad, pencil, pen, ruler, triangles, etc.

(PROELC2) SELIDES Set and Lighting Design

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting Board/Table, and Rendering Materials eg. vellum, tracing/hopia paper, sketchpad, pencil, pen, ruler, triangles, etc.

(INCDAD3) Advanced CAD - 3D Rendering & BIM System

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting and Rendering Materials e.g. paper, pencil, pen, ruler, triangles, etc.

(INDPRO2) Business Practices in Interior Design

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting and Rendering Materials e.g. paper, sketchpad, pencil, pen, ruler, triangles, etc.

(PERSPEC) Perspective Drawing

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe
- Drafting Board/Table, Drafting Materials: Pencils: 3H, H, HB, 2B, 6B (Staedtler, Collen, Faber castell); Metric Scale; Meter Tape (5Meters); masking tape or magic tape; eraser (kneaded and regular eraser); T-Square (Rotring or any brand); 20 sheets graphing paper (9x12) ; 20x30 tracing paper (80/85 GSM); 30/60 triangle and 45/90 Triangles; compass, protractor

(INDRAW1) Freehand Drawing

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting Board/Table, Drafting Materials: Pencils: 3H, H, HB, 2B, 6B (Staedtler, Collen, Faber Castell); Metric Scale; Meter Tape (5Meters); masking tape or magic tape; eraser (kneaded and regular eraser); T-Square (Rotring or any brand); 20 sheets graphing paper (9x12); 20x30 tracing paper (80/85 GSM); 30/60 triangle and 45/90 Triangles; compass, protractor

(INDEXHI) Interior Design Exhibit

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting and Rendering Materials for schematics e.g. paper, sketchpad, pencil, pen, ruler, triangles, etc.
- Waiver Agreement

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**SDA-ESC
INTERIOR DESIGN**

(AESTETA) Aesthetics in Human Design

- Desktop PC/ Laptop with reliable internet connection. Video Camera/ Camera phone with video capability. Scanning App for documentation.
- Google Docs/ Slides, MS Office, Canva, Adobe Photoshop
- Basic Drawing/Rendering materials; Acrylic paint, A3 Vellum Board

(ABASICD) Advanced CAD

- Scanning app for documentation
- Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition)
- Drafting and Rendering Materials e.g. paper, pencil, pen, ruler, triangles, etc.

(INDMADE) Materials of Decoration and Finishes

- Desktop PC / Laptop with reliable internet connection. Video Camera / Camera phone with video capability. Scanning app for documentation
- Internet Browser, MS Word, MS Powerpoint or Keynote, Sketchup (student edition), AutoCADD (student edition), and Adobe Photoshop (student edition).
- Drafting Board/Table, and Rendering Materials eg. vellum, tracing/hopia paper, sketchpad, pencil, pen, ruler, triangles, etc.; 1/2 sintra board (3-5MM thick); Illustration board/cardboard for mockups

**SDA-ESC
FASHION DESIGN AND
MERCHANDISING**

(FDMILU2) Fashion Illustration 2

- Updated OS and internet browser
- Software of choice IF DIGITAL outputs: Adobe Photoshop / Autodesk Sketchbook / Procreate (any)
- 9x12 Sketchpad, HB and 2B Pencils, Uni Pin Felt Tip Pens (0.5, 0.8), Kneaded or Soft Rubber Erasers, Ruler, Alcohol Based Markers, Colored Pencils, Watercolor Set (8 pan), Paint Brush
- Waiver Agreement

(FMDRA1) Pattern Drafting 1

- Updated OS and internet browser
- Pattern Paper
- Headless Pins
- Colored Pencils / Fabric Markers
- Medium Weight Muslin (5 yards)
- Fabric Scissors
- Measuring Tape
- Drafting Paper
- Drafting Rulers
- Tracing Paper
- Tracing Wheel
- Waiver Agreement

(FDMTXX1) Textile Science and Surface Design 1

- Updated OS and internet browser
- A media player such as Flash Player or Windows Media Player
- Microsoft Software, Adobe Software or Design Apps for design explorations/studies of fabric manipulations, portfolio layout of work
- Weaving:
 - Wooden Hand Loom (12"x15"size)
 - Plastic Tapestry Needle (big eye)
 - Yarns (Light weight for warping, Medium weight for weft)
 - Ribbons
 - Scrap fabrics
 - Scissors
 - Crocheting:
 - Aluminum Crochet Hook 5/0 – 6/0 size
 - Plastic Tapestry Needle (big eye)
 - Yarns (Medium weight 8-12 ply yarn, 50g minimum)
 - Waiver Agreement

(FDMCON1) Clothing Construction 1

- Updated OS and internet browser
- Pattern Paper
- Headless Pins
- Colored Pencils / Fabric Markers
- Medium Weight Muslin (5 yards)
- Fabric Scissors
- Measuring Tape
- Drafting Paper
- Drafting Rulers
- Tracing Paper
- Tracing Wheel
- Sewing Machine
- Bias tape- 1 pack
- Regular Zipper - 2 pcs 8" long
- Invisible Zipper - 2 pcs 8" long
- Hook and eye big for skirt
- Buttons - at least 1/2" - 1 dozen
- Waiver Agreement

(FDMTXX2) Surface Design 2

- Updated OS and internet browser
- A media player such as Flash Player or Windows Media Player
- Microsoft Software, Adobe Software or Design Apps for design explorations/studies of fabric manipulations, portfolio layout of work
- Katcha /cotton / silk fabric
- Elmer's glue
- textile/ acrylic paints
- spray bottle
- paint brush (to apply glue)
- Venus Dye
- Squeeze bottles
- Cotton twine/ string/ rubber bands/ clamps/ marbles etc.
- Wash Basin
- Natural Dye: atsuetue turmeric powder, iodized salt
- Gloves and apron
- One liter glass jar (from shopee or use old jam jars stc)
- Waiver Agreement

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SDA-ESC
FASHION DESIGN AND
MERCHANDISING

(FMAPROD) Apparel Production Management

- Updated OS and internet browser
- Pattern Paper
- Headless Pins
- Colored Pencils / Fabric Markers
- Medium Weight Muslin (5 yards)
- Fabric Scissors
- Measuring Tape
- Drafting Paper
- Drafting Rulers
- Tracing Paper
- Tracing Wheel
- Sewing Machine
- Waiver Agreement

(FDMCON2) Clothing Construction 2

- Updated OS and internet browser
- Pattern Paper
- Headless Pins
- Colored Pencils / Fabric Markers
- Medium Weight Muslin (5 yards)
- Fabric Scissors
- Measuring Tape
- Drafting Paper
- Drafting Rulers
- Tracing Paper
- Tracing Wheel
- Sewing Machine
- Bustier/Formal (Endterm Project)
- Regular Zipper 8" -2, 20" -2
- Hook and Eye - big and small
- Invisible Zipper at least 20" -2
- Boning-at least 2 yards
- Fusible - 1 yard
- Lining - 3 yards
- Materials for bustier/gown
- Students preference - at least 3 yards
- Waiver Agreement

(FDMHIST) Costume and Fashion History

- Updated OS and Internet browser
- Adobe Software (Photoshop, Illustrator, Acrobat DC)
- Design or Rendering Programs/ App (Medibang/ Procreate/ Autodesk)
- Mannequin Head/ Millinery head form
- Headless Pin
- Sewing Kit (needle, thread, fabric sheers, thread cutter)
- Craft Adhesive (E6000/ B7000/ Glue gun/ Fabric Glue)
- Buttons, Beads, Embellishments or trimmings
- 1 Yard Felt Fabric (Neutral Color)
- Fabric Clippings (Retaso)/ Different types of excess fabric
- Plain wooden hand fan
- Barbie doll/ Wooden mannequin (11.5-12in)
- Sketchpad A4
- Pen (Unipin/ Regular Ballpen)
- Pencils (HB, 2B)
- Soft Rubber Eraser
- Rendering Materials (Colored pencil/ markers/ Watercolor set/ acrylic paint/ Brushes)
- Notebook
- Waiver Agreement

(PROFES1) Design Profession and Code of Ethics

- Updated OS and internet browser
- Adobe Acrobat DC (Converter)
- Notebook
- Pen/ Pencil
- Calculator

(FDCREA1) Creative Analysis 1

- Updated OS and internet browser
- Adobe Software (Photoshop, Illustrator, Acrobat DC)
- Muslin (Katcha) 5-15 yards
- Fabric Scissors
- Measuring Tape
- Drafting Paper
- Drafting Rulers
- Tracing Paper
- Tracing Wheel
- Needle and Thread
- Pins
- Dress Form
- Soldering Iron
- Steel rulers/curves
- Textile or Acrylic Paints
- Powder Colored Dyes
- Bleach
- Glue
- Sketchpad
- Pencils
- Pens
- Eraser
- Markers
- Colored Pencils
- Watercolor with Brush
- Sewing Machine
- Waiver Agreement

(FDMCAD2) Computer Aided Pattern Design

- Recommended OS for Lectra: Windows 10 Professional/Enterprise 64-Bits Ed.
- Other Supported OS for Lectra: Windows 8.1 Update Professional 64-Bits Ed., Windows 7 Professional/Enterprise 64-Bits Ed. (SP1)
- Software alternative to Lectra is ONLY Adobe
- OPTION: For Mac Users- Adobe Software, updated OS and internet browser

(FDDRAPG) Basic Draping

- Dressform (any size)
- Style Tape or 1/8 Ribbon
- Headless Pins
- Colored Pencils / Fabric Markers
- Medium Weight Muslin (5 yards)
- Fabric Scissors
- Measuring Tape
- Drafting Paper
- Drafting Rulers
- Tracing Paper
- Tracing Wheel
- Sewing Machine
- Waiver Agreement

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SDA-ESC
FASHION DESIGN AND
MERCHANDISING

(PROFES2) Design Arts and Law

- Updated OS and internet browser
- Adobe Software (Photoshop, Illustrator, Acrobat DC)
- Design or Rendering Programs/ App (Canva/ Medibang/Procreate/ Autodesk)
- Notebook
- Pen/ Pencil
- Calculator

(FDMELE1-FDMCPDC) Men's Children's Pattern Drafting and Construction

- Updated OS and internet browser
- Pattern Paper
- Headless Pins
- Colored Pencils / Fabric Markers
- Medium Weight Muslin (5 yards)
- Fabric Scissors
- Measuring Tape
- Drafting Paper
- Drafting Rulers
- Tracing Paper
- Tracing Wheel
- Waiver Agreement

(FDMELE1-FDMRETEEN) Retail Environment

- Updated OS and internet browser
- Adobe Software (Photoshop, Illustrator, Acrobat DC)
- Design or Rendering Programs/ App (Canva/Medibang/Procreate/ Autodesk)
- Notebook
- Pen/ Pencil
- Calculator

(MSAPPDE) Men's Apparel Pattern Drafting

- Updated OS and internet browser
- Pattern Paper
- Headless Pins
- Colored Pencils / Fabric Markers
- Medium Weight Muslin (5 yards)
- Fabric Scissors
- Measuring Tape
- Drafting Paper
- Drafting Rulers
- Tracing Paper
- Tracing Wheel
- Waiver Agreement

(MCLCONS) Men's Apparel Clothing Construction

- Updated OS and internet browser
- Pattern Paper
- Headless Pins
- Colored Pencils / Fabric Markers
- Medium Weight Muslin (5 yards)
- Fabric Scissors
- Measuring Tape
- Drafting Paper
- Drafting Rulers
- Tracing Paper
- Tracing Wheel
- Sewing Machine
- Waiver Agreement

(FASHSK3) Fashion Sketching and Watercolor Rendering III

- Updated OS and internet browser
- Adobe Photoshop/Illustrator, or Autodesk Sketchbook, or Procreate
- 9x12 Sketchpad, HB and 2B Pencils, Uni Pin Felt Tip Pens (0.5, 0.8), Kneaded or Soft Rubber Erasers, Ruler, Alcohol Based Markers, Colored Pencils, Watercolor Set (8 pan), Paint Brush
- Waiver Agreement

(APCRDS1) Apparel Creative Design 1

- Updated OS and internet browser
- Adobe Software (Photoshop, Illustrator, Acrobat DC)
- Fabric (several types like denim, cotton, muslin, etc. for exploration/manipulation)
- Fabric Scissors
- Needle and Thread
- Pins
- Soldering Iron
- Steel rulers/curves
- Textile or Acrylic Paints
- Powder Colored Dyes
- Sketchpad
- Pencils
- Pens
- Eraser
- Markers
- Colored Pencils
- Watercolor with Brush
- Sewing Machine
- Waiver Agreement

(DRAPNG3) Draping 3

- Dressform (any size)
- Style Tape or 1/8 Ribbon
- Headless Pins
- Colored Pencils / Fabric Markers
- Medium Weight Muslin (5 yards)
- Fabric Scissors
- Measuring Tape
- Drafting Paper
- Drafting Rulers
- Tracing Paper
- Tracing Wheel
- Geena Silk for lining (5yards)
- Twill Fabric (5yards)
- Old Clothes for deconstruction
- Any stretched or Knit Fabric (4 yards)
- Sewing materials
- Sewing Machine
- Waiver Agreement

(CADD-02) Computer Aided Drafting Design 2

- Recommended OS for Lectra: Windows 10 Professional/ Enterprise 64-Bits Ed
- Other Supported OS for Lectra: Windows 8.1 Update Professional 64-Bits Ed., Windows 7 Professional/ Enterprise 64-Bits Ed. (SP1)
- Software alternative to Lectra is ONLY Adobe
- OPTION: For Mac Users- Adobe Software, updated OS and internet browser

NOTE: If you do not find any of your enrolled course on this list, it means that you will manage with a standard desktop computer or laptop with any word processing tool (e.g. MS Word, Apple Pages, etc.), spreadsheet programs (e.g. MS Excel, Apple Numbers, etc.), presentation software (e.g. MS PowerPoint, Apple Keynote, etc.) and reliable internet connection.

**SCHOOL OF DESIGN AND ARTS-ENVIRONMENT STUDIES CLUSTER
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For program-specific questions about the above-listed course requirements, please get in touch with your respective Program Chairperson or Program Officer-In-Charge.

School of Design and Arts – Environment Studies Program Chairpersons	
Architecture Program	Ar. Harvey A. Vasquez harvey.vasquez@benilde.edu.ph
Fashion Design and Merchandising Program	Ms. Christine Cheryl Y. Benet christinecheryl.benet@benilde.edu.ph
Industrial Design Program	Mr. Romeo M. Catap Jr. romeo.catap@benilde.edu.ph
Interior Design Program	Ms. Katherine Anne G. Correa katherineanne.correa@benilde.edu.ph