SYLLABUS

- CLASS WEBSITE: WWW.MYWEB.TTU.EDU/SHWANG
CAD/CAM FOR APPAREL

- CAD: COMPUTER AIDED DESIGN
- CAM: COMPUTER AIDED MANUFACTURING
**Product Management:**
- For apparel business, sourcing & communication (e.g. WebPDM, PLM)

**Product Design:**
- Story boards
- Fabric rendering (e.g. Adobe Illustrator/Photoshop)

**Digital Printing:**
- High quality print fabric

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**Pattern Development**
- For pattern design making (e.g. **Pattern Design System**)
- Grading & maker making (e.g. **Gerber AccuMark**)
- Measurement specifications* (e.g. Gerber MTM software)
- 2D pattern to 3D visualization (e.g. V-Stitcher)
- Digitizing (e.g. Silhouette Table, N-Shot)

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**Plotting/ Spreading/ Cutting**
- For fast efficient automatic process

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**Unit Production System**
- For efficient automatic process
Pattern Design Software for pattern making
APPAREL TECHNOLOGY: 3D BODY SCAN

- **The Use of 3D Body Scan Technology**
  - For Mass Production & Customization

- **Approaches**
  - Analyzing 3D Body Scan Automatic Landmark Identification and Algorithm.
  - Analyzing 3D Anthropometry Data from National Sizing Survey Study.
  - Identifying Fit Issues and Various Body Shapes.
  - Developing Standard Sizing Systems.
Struggle to find clothes that actually fit you? Tired of returning clothes you buy online? Would you like to have more comfortable seats in your car? Would you love to have more leg room on airplanes?

Join us today for better fit!

For a Better Fit!
#SizeNorthAmerica

$20
Each participant will receive a $20 VISA gift card upon completion of the survey!

Human Solutions of North America, Inc.

For Sign up, Go to:
www.SizeNorthAmerica.com
ADVANCED COMPUTER TECHNOLOGIES

3D Body Scan w/ [TC]2

Simulation model w/ OptiTex Runway

Modulate for made to measure w/ OptiTex modulate software

http://www.optitex.com/fr/Produits
FIT ASSESSMENT WITH 3D VIRTUAL TOOLS
-SPONSORED BY ACADEMY SPORTS, INC.-
SEAMLESS FABRIC PRINT LAYOUT
RPS HALIBURTON UNIFORM

SAMPLE SIZE: B36
RPS MODEL: B47
RPS HALIBURTON UNIFORM

SAMPLE SIZE: B36
RPS MODEL: B47

SAMPLES ARE PRODUCED AND TRIED ON TO GET FEEDBACK REGARDING COMFORT AND FIT
COMPUTER APPLICATIONS

• WHAT ARE THE COMPUTER APPLICATIONS (SOFTWARE) FOR APPAREL DESIGN?
  • GERBER PDS, ADOBE PHOTOSHOP, ADOBE ILLUSTRATOR.

• WHAT ARE THE AVAILABLE TECHNOLOGIES FOR APPAREL DESIGN?
  • DIGITAL PRINTERS, DIGITIZERS, PLOTTERS, AUTOMATIC CUTTERS, 3D BODY SCANNER, CAD SYSTEMS, 3D VIRTUAL MODEL, ETC.

• CAD/CAM SUPPLIERS
  • LECTRA
  • INVESTRONICA
  • GERBER TECHNOLOGY
  • PAD
  • ASSYST
IMPORTANCE OF USING CAD/CAM

- **QUICK RESPONSE:**
  - Faster response times in apparel manufacturing process.
- **COST:**
  - Lower production costs in apparel manufacturing process.
- **FLEXIBILITY:**
  - Produce from smaller order to larger order quantities
- **ENABLE MASS PRODUCTION/ CUSTOMIZATION.**
- **EFFICIENT AND SECURE COMMUNICATION METHODS.**
- **OPTIMIZATION:**
  - Example: automatic marker optimization software.
- **ENHANCE CREATIVE DESIGN WORKS.**
ASSIGNMENT #1

• WRITE ABOUT APPAREL COMPUTER APPLICATIONS.
  • FIND 2 APPAREL COMPUTER APPLICATIONS (SOFTWARE)
  • WRITE ABOUT 1) HOW THEY WORK 2) WHAT ARE THE ADVANTAGES AND 3) DISADVANTAGES OF USING CAD/CAM.
  • INCLUDE REFERENCES AND TEXT CITATIONS IN APA STYLE.
  • FONT SIZE 12, LINE SPACE 1.5.
  • SUBMIT A HARD COPY. MAXIMUM 2 PAGES.
ASSIGNMENT #2

• PLAN OF A LINE:
  • CATEGORY (JUNIOR, MISSY, ETC.)
  • PRICE RANGE
  • THEME
  • COLOR AND FABRIC
  • SEASON
  • DESCRIPTION OF YOUR TARGET CONSUMER (E.G. LIFE STYLE).
  • SKETCHES

• SKETCHES:
  • 6 COMPLETE ENSEMBLES.