ATD362 -- ADVANCED SPECIFICATIONS

Instructor:	e-mail:
	Term:
Voice mail:	Total class hours: 36
Office hours:	Class meets:

Course description: Students live the day-to-day work of a technical designer, technical developer or product developer.

Course objectives: Upon completion of the class, students will:
- Learn the product development process from beginning to end.
- Use skills with technical sketches and design to set up a sketch library.
- Know what details need to be called out and how to sketch for them.
- Be able to create a Bill of Materials from just looking at design.
- Know how to specify the BOM and required stitches on a technical package.
- Assign basic grade rules, and add measurement sheets.

Competencies being assessed. At the end of the course, a student will know how to:
- Use software to create specification sheets that improve production efficiency.
- Anticipate issues and create solutions through technical packages.
- Create specification sheets within industry-established tolerances.
- Devise a system to show flats and specs for every garment in a style line.

Prerequisites: Flats & Technical Packages (ATD261)

Class format: Class time is divided between lecture and supervised workshop time.

Required text*: The Complete Book of Technical Design*; Beard, Deborah; 2013; ISBN-13: 978-0132560320

Supplies
- Apple/PC laptop loaded with CS4 or above
- USB device (2 GB recommended)
- Sketchbook for note taking & drawing

Standards of conduct: Complete and on-time attendance is mandatory.
- **No student can miss three or more classes and expect to pass this class.**
- Attendance is at the beginning of each class period. If you are late, you will lose half the attendance points for the day. If you arrive late, it is your responsibility to make sure you have been counted present. If you arrive more than 15 minutes after the beginning of a part of the class period, you will be counted absent for that part of the period.
- If you are absent, you lose the attendance points for that day. If you know ahead of time that you will not be in class, make arrangement with the instructor the night *before* class (by 10 p.m. and by telephone).
- It is the student's responsibility to keep track of assignments and turn them in on time should the students miss the class or arrive late.
- Professionalism means: Turn off your cell phone. Attend the full class. Focus and follow-through during classroom work. Have respect and work well with classmates. Use the same behavior in the classroom as you would on the job in the apparel industry.
- Late work will result in a one letter grade deduction.

Labeling Policy: All student work must be turned in with the following information: Name, Course Name/Number, Instructor, Term/Date, Project/Assignment, Contact Info (phone or e-mail). Work may not be accepted for full credit without the required information. PFI cannot guarantee the return of student work that is not labeled with the required information.

Incomplete: A student who, due to medical or other exceptional causes, cannot complete the required class work must document his/her situation and submit a written request for an incomplete grade to be entered. The instructor, the academic advisor and director must approve the grade and assign a time line for the work to be completed. Incompletes must be requested and approved no later than the end of the quarter for which the incomplete is requested. To remove an incomplete, a student must complete the required course work before the next quarter commences. If a student does not comply within the time line or does not complete the work, an "F" grade, or the grade calculated by the instructor on the incomplete form, will be entered to replace the incomplete.

To initiate a request for an incomplete grade, the student must fill out an incomplete form and submit it to his/her instructor. The instructor will obtain the required signatures and submit the completed form with final grades.

Withdrawal (W/WF): The student who withdraws from a course or from the program during the first six weeks of the quarter will be assigned a "W" code for each course. The "W" code is not used in computation of the student's grade point average; however, "W" credits are counted toward total credits attempted. The student who withdraws from a course or from the program after the ninth week of the quarter will be assigned a "WF" code for each course. The "WF" code is the equivalent of a grade of "F" and is used in computing the student's grade point average.

Students wishing to withdraw from PFI must file an official status change form with the Academic Advisor.

Last day to withdraw from the class is 48 hours before class starts.

Lab Policies: Leave food and drink outside the classroom. Disciplinary action will be taken toward any student found using the equipment in an inappropriate manner. Disruptive, disrespectful, rude behavior is not tolerated.

Plagiarism: Presenting the writings, images or paraphrased ideas of another as one's own, is strictly prohibited. Properly documented excerpts from other's works, when they are limited to an appropriate amount of the total length of a student's paper, are permissible when used to support a researched argument.

Attendance Policy: Students who are absent from all scheduled classes over a 14-day period (2 weeks) are subject to automatic attendance suspension—from PFI, not just from this course. This means the student is administratively withdrawn from all courses and cannot attend classes or continue in the current quarter unless he/she successfully appeals for reinstatement. Students who anticipate violating the attendance policy should contact the academic advisor immediately to discuss options such as withdrawing from PFI or navigating the appeals process.

Picking up Work: Please pick up your work no later than the first Friday of the following quarter. If you cannot retrieve your work by this date please make arrangements with me. All work not picked up by this date will be recycled.

Students with Disabilities: It is PFI policy not to discriminate against qualified students with a documented disability in its educational programs, activities or services. If you have a disability-related need for adjustments contact the academic advisor.

Evaluation:

Attendance/Professionalism/Participation	10 %
Class projects (4)	40%
Final project	50 %
TOTAL	**100 %**

Grade Scale

Letter	Number	Rating
A	95-100	Excellent
A-	90-94	
B+	87-89	Good
B	83-86	
B-	80-82	
C+	77-79	Satisfactory
C	73-76	Fair
C-	70-72	
D+	67-69	Marginal
D	62-66	
F	<62	Failure

COURSE CALENDAR

This syllabus is subject to change at the instructor's discretion.

WEEK/DATE	TOPIC	ACTIVITY	ASSIGNMENTS
1/	Introductions. Terminology. Process. Goals and Objectives.	***Bring supplies to every class.*** **LECTURE:** 3 real world projects **CLASSWORK:** Project 1: Start T-shirt tech pack from design given	Work on project #1
2/	Product development requirements	**LECTURE:** What all goes into a tech pack Tech pack as contract with a sewer or manufacturing plant Steps and best practices to creating the perfect tech pack for production Identify issues with the design Identify from sketch potential construction hurdles- suggest new construction methods **CLASSWORK:** Add above to project #1	Finish project #1 for review
3/	Sketch library	**LECTURE:** Building a sketch library Learn about measurement sheets in tech packs and how point of measure can be used to correct fit issues, etc. when building your tech packs for the perfect first prototype **CLASSWORK:** Project 2: Start Pant tech pack	Work on project #2
4/	BOM	**LECTURE:** What is a BOM How to use your BOM for costing the garment Estimating usages Estimating costs Estimating Labor costs BOM Callouts in Illustrations **CLASSWORK:** Add above to Project #2	Finish project #2 for review

5/	Detailed sketches	**LECTURE:** Detail Sketches **CLASSWORK:** Start Project #3: Down Jacket Front, Back, Side, Lining sketches BOM Usages Costing Sheets	Finish project #3 for review
6/	Detailed sketches	**LECTURE:** More detail sketches **CLASSWORK:** Start Project #4: Winter Jacket- Insulated On-Mountain Snow Sports Front, Back, Side Lining sketches Detail Sketches BOM Usages Costing Sheet	Finish project #4 exterior for review
7/	Measurement sheets	**LECTURE:** Creating measurement charts **CLASSWORK:** Continue Project #4 Front, Back, Side, Lining sketches Detail Sketches BOM Usages Costing Sheets	Finish project #4 interior for review
8/	Measurement sheets	**LECTURE:** Checking measurement charts **CLASSWORK:** Add measurement sheets	Add measurements charts to all tech packs
9/	Grade rules	**LECTURE:** Adding grade rules to specs and techs **CLASSWORK:** Add grade rules to specs and techs	Finish projects #1-4
10/	Spec packs	**LECTURE:** Bringing it all together **CLASSWORK:** Bring in 3 designs. Create technical packs for production for each.	Work on technical packages for 3 designs
11/	Prepare 3 spec packs	**LECTURE** Portfolio preparation **LAB** Finish technical packages for 3 designs	**3 spec packs due next week**
12/	Final	**PROFESSIONAL CRITIQUE:** Columbia Sportswear	**Portfolio preparation**