

AD420 -- BRA PATTERN & CONSTRUCTION

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

Course description: Students will produce 3 bras: underwire, wireless, shapewear.

Course objectives: Upon completion of the class, students will know:

- Steps in taking an intimate garment from concept to completion
- Construction techniques used in working with engineered intimates, including production methods.
- Infrastructure and details for proper fit of intimate garments.

Competencies being assessed:

- Assess tools offered for construction techniques and match the right tool to the construction technique.
- Manufacture any given garment using correct construction techniques from first cut to final closure so the garment is ready for sale.
- Write design briefs that show understanding of how business concepts such as brand and cost apply to apparel design.

Class format: Class sessions are workshops that all students are required to attend on time. Each class begins with a check-in where students show their work log, completed samples and progress on their garments. Students will work individually to develop their own designs and with the instructor's supervision to design, illustrate, create patterns and construct the final garment. Students are expected to keep pace with class assignments so that all students are working on current assignments. This means work outside of the classroom. Class sessions include lecture, demonstration, critiques and workshop time.

Prerequisites: Lingerie (AD315), Pattern Knits & Stretch (AD331)

Required text: *Bare Essentials: Bras: Construction and Pattern Drafting for Lingerie Design* by Jennifer Lynne-Matthews, Fairbanks Press, 2011.

Required supplemental materials:

- Patternmaking tools
- Bra cup fabric: Tricot to start.
- Bra band fabric: PowerNet.
- Bra elastics
- Bra strapping
- Bra back hook closure
- Strap rings & slides
- Underwires
- Underwire channeling
- Ballpoint/Stretch needles 75/11 and/or 70/10
- Sew all polyester thread
- Water soluble/air erasable marker or Frixion pen
- Fabric scissors
- Applique scissors (optional but recommended)
- Rotary cutter: 18 mm (best size) or 28 mm
- Rotary cutting mat

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 %
Concept board. Design sketches	5 %
Prototypes	20 %
Pattern development, final patterns	10 %
Final garments	40 %
Presentation board	5%
Costing. Production summary.	10 %
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: Discuss bra elements, fit and construction parameters. Research materials. IN CLASS RESEARCH: History of the bra; Poirret to today Market research Design brief	Complete design brief: Your name Career hopes Classes taken Projects you have in mind Fit models you would use Fabric choices Technique choices
2/	Design and engineering considerations	PRESENTATIONS & CRITIQUE Concept paper, fabrics, cost projections LECTURE Comparison of bra techniques IN CLASS WORK:	Finish final sketches for three projects. <i>Reading: Chap. 1</i>

		Basic stitches Develop garments based on critique	
3/	BOM: Fabric & findings	LECTURE: Details, findings, linings. IN CLASS WORK: Review flats. Discuss proto and final fabric choices. Start work on bra patterns through flat pattern.	Develop bras by flat pattern <i>Reading: Chap. 2</i>
4/	Pattern garment; Construction techniques	CRITIQUE Patterns LECTURE & DEMO Tweaking patterns for shape. IN CLASS WORK: Finish pattern. Cut and sew underwire proto.	Update BOM. Sew underwire prototype. <i>Reading: Chap. 3</i>
5/	Proto fit and alteration; Garment assembly	CRITIQUE Underwire prototype. IN CLASS WORK: Alter prototype per fit changes. Cut fabric, lining Sew underwire bra	Finish underwire bra. Organize samples in notebook. <i>Reading: Chap. 4</i>
6/	Proto fit and alteration; Garment assembly	LECTURE & DEMO: Wireless bra. IN CLASS WORK: Cut wireless proto.	Sew wireless bra <i>Reading: Chap. 5</i>
7/	Proto fit and alteration; Garment assembly	CRITIQUE Wireless prototype. IN CLASS WORK: Alter prototype per fit changes. Cut fabric, lining Sew wireless bra	Finish wireless bra. <i>Reading: Chap. 6</i>
8/	BOM: Fabric & findings	LECTURE & DEMO: Considerations for shapewear. IN CLASS WORK: Develop flats. Discuss concept and final fabric choices. Start work on shapewear pattern through flat pattern	Finish shapewear pattern. <i>Reading: Chap. 7</i>
9/	Proto fit and alteration; Garment assembly	CRITIQUE Shapewear pattern. IN CLASS WORK: Finish pattern. Cut and sew shapewear proto	Finish shapewear prototype. <i>Reading: Chap. 5</i>
10/	Proto fit and alteration; Garment assembly	CRITIQUE Shapewear prototype. IN CLASS WORK: Alter prototype per fit changes. Cut fabric, lining	Sew shapewear.
11/	Proto fit and alteration; Garment assembly. Cost sheets & client summary	CRITIQUE Shapewear progress. IN CLASS WORK: Finish shapewear Create cost sheet with client summary. Work on presentation board.	Finish shapewear. Finish presentation board, cost sheet, production summary. Clean up patterns. Add these to notebook.
12/	Final project critique	PRESENTATIONS: Final project critique with garments, all patterns and spec packages	Notebook, garments, cost sheets, presentation board, production summary due at end of class