APDM 321 and 321L - Textile II

1. What is the course modification?

APDM 221 Textile Fundamentals (4) (3 Lec, 1 3-hr) is presently being taught. It covers the physical properties, structures, and finishes of textiles used in apparel and home furnishings. APDM 320 Textiles I (pending approval) will cover the same areas of study and expand on the interrelationships between textile characteristics, properties, and end uses. It will become the first of two courses to be taken sequentially. It will be a prerequisite for a newly added course, APDM 321 Textiles II, which will cover the chemical properties of fibers and finishes as well as research methodology. These courses are designed to be taken sequentially and are needed to achieve a broad working knowledge of textiles.

2. Why is this course being requested or modified?

The global world of textiles is becoming so complex and technology driven that it is difficult to adequately cover enough material in depth in one semester to enable students to acquire proficiency in the required basic skills and knowledge need by a professional in this field.

3. How will the content be organized?

See attached syllabus. It includes fibers, finishes, and care methods. The laboratory portion of the course stresses laboratory research methodology. Lecture and laboratory must be taken concurrently. APDM 320 is the prerequisite that must be taken prior to APDM 321. APDM 321 fulfills one upper-division writing intensive requirement. A writing intensive course stresses opportunities for assistance and feedback on the writing process.

4. What other courses at UHM closely parallel the proposed course and in what way will the latter make a distinct contribution?

No other courses at UH Mānoa cover the area of textile science and its applications. APDM 221 will be expanded into 2 courses to provide deeper and broader instruction of textile properties and research method. APDM 321, like APDM 221 will not limit to provide fundamental knowledge of textiles, but also provide research methods. Students will learn to identify fibers and fabrics and their physical properties and will learn to resolve consumer problems relating to textile use. This new level of knowledge is needed by students in advanced apparel construction and design, and by students in advanced apparel product merchandising courses.
5. **Where or how does the proposed course fit into the current and future curriculum?**

See attached charts of APDM curriculum.

6. **Why is the number of credits and level justified? Explain the prerequisites and the absence thereof.**

Instruction will include two 75 min. lectures for 3 credits. Prerequisites for this 300 level course are APDM 101: Introduction to APDM, APDM 111: Apparel and Marketing Apparel and Marketing Aesthetics, and one of the APDM 200 level courses. Students will need to have a basic knowledge of the terminology and concepts within the field of apparel design and merchandising. They need to understand the process that begins with the textile fiber because fibers and fabrics influence design and production, sourcing, and merchandising of the finished product. APDM 321 fulfills one upper-division writing intensive requirement. A writing intensive course stresses opportunities for assistance and feedback on the writing process.

7. **How will the course assist students to achieve the critical skills and competencies expected of CTAHR graduates?**

After finishing APDM 321, students should be able to develop analytical/problem solving skills (level # 3):

- Identify textile fibers and define a problem
- Identify problems in the consumer-driven textile/apparel/retail complex & identify possible solutions
- Evaluate possible solutions through group discussion and presentations
- Select a solution to a problem by completing a final project
- Use AATCC (American Association of Textile Chemists and Colorists) and ASTM (American Society for Testing and Materials) scientific methods of quality investigation to examine textile/apparel products

8. **How will students be evaluated?**

Twenty fabric swatch one-page assignments will be evaluated (10% of the student’s grade). Three tests and final exam will be given (80% of the student’s grade). Two oral presentation assignments are required, depending on class size. These are group presentations. These require that each group member take an active part in speaking, as well as in conducting research and preparing the power point presentation. Group will consist of (+/-) 4 students and each group has 5-6 minutes to speak:
* Assignments: A total of 20 extensive laboratory research projects on evaluation of fabrics. (60% of the student’s grade)

* Tests and final exam: three tests and final exam (35 % of the student’s grade)

Students will also be given the responsibility of evaluating each other during the weekly class discussion, providing feedback and thereby learning more about not only how to give an effective presentation but also how to evaluate scientific information.

9. **What are the minimum qualifications for teaching this course? Is a qualified instructor now available?**

   The instructor must have completed university textile courses. Currently Abby Cristi and Shu-Hwa Lin have taught APDM 221: Textile Fundamentals. Both of them can be assigned to teach APDM 321. Abby Cristi received Master degree and Shu-Hwa Lin received her Master degree in consumer affairs and Doctoral degree in Textiles and Consumer Sciences.

10. **How will the course be financed, assuming no further cutbacks?**

    Instructional funds currently used to support APDM 221.

11. **Has the course been offered before? Is there a demand for it?**

    Yes. The APDM 221 course was offered as TXCL 320 and TXCL 321 at an earlier time.

12. **Is the course cross-listed with another department?**

    This course is not cross-listed with another department.