

**HUMAN ENVIRONMENT  
AND DESIGN** **HED**

**Department of Human  
Environment and Design  
College of Human Ecology**

**121. Apparel I: Two-Dimensional Design**  
Fall. 3(1-4)

P: CPS 101 or concurrent

Design fundamentals and creative problem solving in apparel design. Visual communication of design ideas through apparel rendering and computer graphics.

**140. Design for Living**  
Fall, Spring, Summer. 3(3-0)

Interior design from the human ecological perspective. The reciprocal impact of the designed environment on human behavior, design terminology, and the design process.

**142. Design Theory Studio**  
Fall, Spring, Summer. 3 credits.

P: HED 140 or concurrently. R: Open only to Interior Design students.

Design elements and principles in creative problem solving.

**150. Interior Design Drafting**  
Fall, Spring, Summer. 3(1-4)

R: Open only to Interior Design students.

Drafting and two-dimensional drawing for interior design.

**152. Interior Environments**  
Fall. 4(4-0)

Interior design fundamentals and human behavior. Space planning, furnishing, and selection of materials and components for residential and commercial interiors.

**222. Apparel II: Introduction to Three Dimensional Design**  
Spring. 3 credits.

P: HED 121.

Garment structuring: pattern development using two-dimensional and three-dimensional styling techniques.

**231. Textile Materials**  
Fall. 4(4-0)

Structures and properties of fibers, yarns, fabrics, and finishes. Applied design processes. Construction and performance specifications. Textile legislation.

**232. Textile Design**  
Spring. 3(1-4)

P: CPS 101 or concurrently. HED 231.

Computer-aided design of textiles.

**240. Computer-Aided Design for Designers**  
Fall, Spring, Summer. 3(1-4)

R: Not open to freshmen.

Introduction to computer-aided design applications.

**250. Structural Systems in Interior Design**  
Spring. 3(1-4)

P: HED 240, HED 242. C: HED 252 concurrently.

Structural principles of interior design.

**252. Interior Design Synthesis I**  
Spring. 4(1-6)

P: HED 152, HED 231 C: HED 250 concurrently. R: Not open to freshmen. Open only to students in the Interior Design major.

Design process with emphasis on problem resolution for residential and commercial interiors.

**261. Introduction to Merchandising Management**

Fall, Spring. 3(3-0)

Retailing of goods and services. Retail industry structure, location, pricing, promotion, and management.

**323. Apparel III: Advanced Three Dimensional Design**  
Fall. 4(1-6)

P: HED 222, HED 240.

Structural principles and computer-aided design applications for apparel designers.

**340. Interior Design Specifications and Workroom Practices**  
Fall. 3(2-2)

P: HED 252. C: HED 342 concurrently. R: Open only to juniors, seniors and graduate students in Interior Design. Completion of Tier I writing requirement.

Specifications and workroom practices used for fabrication and installation of design solutions for interior spaces.

**342. Interior Design: Human Dimensions**  
Fall. 3(2-2)

P: HED 252. C: HED 340 concurrently. R: Open only to juniors, seniors and graduate students in Interior Design.

Human dimensions as determining factors in designing human environments. Standards and concepts of universal fit.

**343. Interior Design Presentation and Media**  
Fall. 3 credits.

P: HED 252 R: Open only to juniors and seniors in Interior Design.

Design communication through two- and three-dimensional drawings in media. Presentation procedures and techniques.

SA: HED 242

**344. History of Interior Design: Ancient Through Rococo**  
Fall. 3(3-0)

R: Not open to freshmen.

Historical development of furniture, textiles and other decorative arts in interior design and architecture.

**350. Interior Design Lighting and Environmental Systems**  
Spring. 3(2-2)

P: HED 252. R: Open only to Interior Design majors.

Lighting and environmental systems including lighting, ventilation, acoustics, heating and cooling. Integration of lighting and environmental systems with interior space.

**352. Interior Design Synthesis II**  
Spring. 4(1-6)

P: HED 342. C: HED 350. concurrently. R: Open only to juniors and seniors in Interior Design.

Concept development and problem solving in design of interior spaces to meet human and environmental needs. Cultural diversity and client interaction.

**354. History of Interior Design: Neo-Classical Through Modern**  
Spring. 3(3-0)

R: Not open to freshmen.

Historical development of furniture, textiles and the other decorative arts from the neoclassical through the modern period. Major social, cultural, and psychological influences.

**362. Human Resources and Professional Practice in Merchandising Management**  
Spring. 3(3-0)

P: HED 261 or MSC101. R: Not open to freshmen or sophomores. Completion of Tier I writing requirement. Strategies for managing employees, coping with conflict, harassment, and discrimination. Team building, problem solving and evaluation of skills necessary to compete professionally.

SA: HED 462

**363. Promotional Strategies in Merchandising**  
Spring. 3(3-0)

P: HED 261 or any 3-credit general business course. R: Open only to juniors and seniors. Development and implementation of promotional strategies. Consumption decision making.

**371. Merchandise Planning and Buying**  
Fall, Spring. 4(4-0)

P: HED 261, ACC 201 or ACC 230, CPS 101 or CPS 131, MSC351 or concurrently, MTH 110 or MTH 116 or MTH 120 or MTH 124 or MTH 201 or STT 20 R: Open only to juniors and seniors in the Department of Human Environment and Design. Completion of Tier I writing requirement.

Calculations and computer application in the planning and control of merchandising budgets.

**373. Merchandising Management Entrepreneurship**  
Fall. 3(3-0)

P: HED 261 or any 3-credit general business course. R: Open only to juniors and seniors.

Small retailing and service businesses and the economy. Problems and strategies for effective management. New venture creation.

**424. Apparel IV: Functional Design**  
Spring. 3(3-0)

P: ) HED 323. R: Open only to juniors or seniors in the Apparel and Textile Design major or to graduate students in the Apparel and Textiles major. Completion of Tier I writing requirement.

Apparel design to meet specialized needs.

**425. Apparel V: Design Studio**  
Spring. 3 credits.

A student may earn a maximum of 6 credits in all enrollments for this course.

P: HED 323; HED 424 or concurrently. R: Open only to juniors or seniors in the Apparel and Textile Design major or to graduate students in the Apparel and Textiles major.

Execution of original apparel designs in appropriate end use fabric.

**426. History of Dress and Textiles**  
Spring. 3(3-0)

P: One ISS course. R: Not open to freshmen or sophomores.

History of dress and textiles as a reflection of the cultural milieu.

**430. Dress, Culture, and Human Behavior**  
Fall. 4(4-0)

R: Open only to juniors or seniors or graduate students.

Dress as an expression of self and reflection of society and culture. Effect of dress on human behavior at the personal, interpersonal, and social organizational levels in Western and non-Western societies.

SA: HED 420

**431. Ecology of the Global Textile and Apparel Complex**  
Fall. 3(3-0)

R: Open only to juniors or seniors or graduate students. Softgoods industry. U.S. and global patterns of production, distribution, and consumption of textiles and apparel. Employment practices and international trade policy. Natural resource use and ecological consequences.

**439. The Developing Professional in Apparel and Textiles**  
Spring. 4(4-0)

P: HED 323 R: Open only to seniors in the Apparel and Textile Design major or to graduate students in the Apparel and Textiles major. Completion of Tier I writing requirement.

Roles, ethics, and reflective practice of a professional in apparel and textiles. Resource identification, information retrieval, professional communication, and conflict management. Problem-solving in a professional team context. Ca pstone course.

**440. Contemporary Design Issues**  
Fall. 2(2-0)

R: Open only to seniors in Interior Design and Merchandising Management. Completion of Tier I writing requirement.

Issues related to design professionals and their clients.

**442. Interior Design Programming**  
Fall. 3(1-4)

P: HED 352. R: Open only to Interior Design seniors. Completion of Tier I writing requirement.

Identifying, programming and preparing schematics of the senior interior design project. Studio sketch portfolio guidelines. Site visits required.

**452. Interior Design Synthesis III**  
Spring. 4(1-6)

P: HED 442. R: Open only to seniors in Interior Design. Completion of Tier I writing requirement.

Advanced studio processes for solving complex interior design problems. Professional practice standards, ethics and client interaction.

**454. Interior Design Communication Methods**

Fall of even-numbered years. 3(1-4)

P: HED 442. R: Open only to juniors and seniors in Interior Design.

Technical methods and techniques for communicating design concepts.

**456. Interior Design Preservation and Conservation**  
Fall. 3(2-2)

P: HED 352 or approval of department. R: Open only to seniors in Interior Design.

The Interior Design component of the preservation movement. Historic restoration and adaptive reuse. Field trips required.

**458. Housing from an Human Ecological Perspective**  
Spring. 3(3-0)

R: Not open to freshmen and sophomores.

Impact of housing on human beings and families. Psychological and cultural dimensions. Financial and policy factors.

**460. Retailing Information Systems**  
Fall. 4(4-0)

P: CPS 101 or CPS 131, MTH 110 or MTH 116 or MTH 120 or MTH 124 or MTH 201 or STT 200 or STT 201 or concurrently or designated score on R: Open only to juniors and seniors in the Department of Human Environment and Design.

Information needed to make effective retail decisions. Use of technology in collecting, analyzing, and interpreting data and in writing and presenting reports.

**465. International Consumer Distribution Systems**  
Fall. 3(3-0)

P: HED 261, MSC 300 or approval of department. R: Not open to freshmen and sophomores. Completion of Tier I writing requirement.

Influence of economic development on distribution and consumption. Retailing in the world market.

**471. International Buying and Product Development**  
Spring. 3(3-0)

P: HED 371. R: Not open to freshmen and sophomores. International merchandising. Global procurement. Sourcing strategies and international purchase negotiations.

**479. Human Resources in International Merchandising Management**  
Fall. 3(3-0)

P: HED 462 or concurrently. R: Not open to freshmen and sophomores.

Comparative analysis of human resources for international merchandising management functions.

**481. Merchandising Strategy Analysis**  
Spring. 3(3-0)

P: HED 363, HED 371, HED 373, FI 311, or approval of department R: Open only to seniors in Merchandising Management. Completion of Tier I writing requirement.

Strategic and financial planning for retailers.

**490. Independent Study**

Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course.

R: Not open to freshmen and sophomores. Approval of department.

Supervised individual study in an area of human environment and design.

**490H. Honors Independent Study**

Fall, Spring. 1 to 10 credits. A student may earn a maximum of 10 credits in all enrollments for this course.

R: Open only to Honors students. Approval of department.

Independent study of selected topics in human environment and design.

**493A. Internship in Merchandising Management**

Fall, Summer. 3 to 8 credits.

P: HED 371, MGT 302. R: Open only to Merchandising Management juniors and seniors. Approval of department.

Supervised professional experience in a selected company which cooperates in offering students structured management activities.

**493B. Internship in Apparel and Textile Design**

Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course.

P: ) HED 323. R: Open only to juniors or seniors in the Apparel and Textile Design major. Approval of department.

Preprofessional experience in a selected business, industry, or community organization.

**493C. Internship in Interior Design**

Fall, Summer. 1 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course.

P: HED 352. R: Open only to juniors or seniors in the Interior Design major. Approval of department.

Preprofessional experiences in selected interior design business or community projects.

**801. Research Literature in Human Environment and Design**  
Fall. 3(3-0)

R: Open only to graduate students.

Investigation into literature in areas of study in human environment and design. Introduction to graduate research.

**821. Dress and Environmental Settings as Nonverbal Communication**  
Spring of odd-numbered years. 3(3-0)

Theory and research on dress and environmental settings as aspects of nonverbal communication. Visual cues, associated meanings and responses. Methodological and ethical issues in applications.

**826. Material Culture**  
Fall. 3(3-0)

Artifacts of clothing, textiles, and interiors as evidence of material culture. Research, analysis, and interpretations of history, craftsmanship, and use of artifacts to determine function and meaning within a culture.

**831. Analysis of Clothing Theory**  
Spring of odd-numbered years. 3(3-0)

P: HED 801.

Theories in clothing from behavioral, ecological, cultural, developmental, and aesthetic perspectives.

**840. Design Analysis and Programming**  
Spring. 3(3-0)

R: Open only to graduate students.

Human performance criteria as design requirements in facilities planning and management.

**841. Facilities Design and Management Systems**  
Fall. 3(3-0)

R: Open only to graduate students.

Facilities management. Organizational and sociotechnical systems. Development and operation of facilities design and management as a practice and profession. Fields trips required.

**842. Facilities Performance and Building Economics**

Fall of odd-numbered years. 3(3-0)

R: Open only to graduate students.

Qualitative and quantitative approaches to assessing performance of facilities. Management perspectives.

**843. Human Factors and Productivity**  
Fall of even-numbered years. 3(3-0)

R: Open only to graduate students.

Human factors and ergonomic issues in modern high technology workplaces. Impact of workplace on health, safety, comfort and productivity.

**844. Facilities Project Management**  
Spring of even-numbered years. 3(3-0)

P: HED 841. R: Open only to graduate students.

Application of project management approaches to facilities design and management. Techniques, computer applications, project team building and change management.

**846. Socio-Cultural and Historical Influences in Human Shelter**  
Fall. 3(3-0)

R: Open only to graduate students.

Theoretical and empirical perspectives in human shelter. Interaction of humans with their designed environment.

**847. Human Shelter Policy Developments**  
Fall. 3(3-0)

R: Open only to graduate students.

Development and impact of national shelter policy and program decisions within the context of national priorities, social conditions, and economic trends

**850. Human Environment and Design Theory**  
Spring of odd-numbered years. 3(3-0)

R: Open only to graduate students.

Theoretical frameworks and models explaining human-environment relationships.

**Descriptions —Human Environment and Design of Courses**

**851. Preservation of Michigan and Midwestern Interiors**

Spring of odd-numbered years. 3(3-0)

R: Open only to graduate students in Interior Design and Human Environment majors. Nineteenth-century interior architecture in Michigan and the midwest. Evaluating physical condition, technology of production, identification of sources and design solutions. Field trips required.

**852. Archival Research and Documentation in Interior Preservation**

Spring of even-numbered years. 3(3-0)

R: Open only to graduate students with preservation emphasis in Interior Design and Human Environment. Research techniques used in the preservation and restoration of historic structures.

**861. Research in Merchandising Management**

Fall. 3(3-0)

P: Research methods course.

Merchandising management research methodology. Implications of research for future directions in merchandising management.

**862. Merchandising Management: Human Resources**

Spring. 3(3-0)

P: HED 861.

Theory, research, and applications in human resource management in merchandising.

**863. Merchandising Management: Consumer Behavior**

Fall. 3(3-0)

Consumer behavior theory, application of consumer behavior models to merchandising management.

**864. International Retailing Behavior**

Spring. 3(3-0)

P: HED 861 or approval of department.

Global retail systems. Comparison of United States and foreign retail systems.

**865. Japanese Retail Distribution Systems**

Summer. 3(3-0)

Distribution of consumer products in Japan. Changing retail formats leading to the emergence of discount retailers. Strategic alliances and vertical channel systems. Comparative US/Japanese structure.

**890A. Supervised Independent Study in Merchandising Management**

Fall, Spring, Summer. 1 to 4 credits. A student

may earn a maximum of 4 credits in all enrollments for this course.

R: Open only to graduate students. Approval of department.

Independent study in topics related to consumer behavior, human resource management, or international merchandising management.

**890B. Supervised Independent Study in Apparel and Textiles**

Fall, Spring, Summer. 1 to 4 credits. A student

may earn a maximum of 4 credits in all enrollments for this course.

R: Open only to graduate students. Approval of department.

Independent study in topics related to apparel design, historic costume and textiles, museum collections, or human behavior and ecological relations.

**890C. Supervised Independent Study in Interior Design and Human Environment**

Fall, Spring, Summer. 1 to 4 credits. A student

may earn a maximum of 4 credits in all enrollments for this course.

R: Open only to graduate students. Approval of department.

Independent study in topics related to facilities design and management, human shelter, or interior design preservation and conservation.

**891A. Topics in Merchandising Management**

Fall, Spring, Summer. 3(3-0) A student may

earn a maximum of 6 credits in all enrollments for this course.

Selected topics related to consumer behavior, human resource management, or international merchandising management.

**891B. Topics in Apparel and Textiles**

Fall, Spring, Summer. 3(3-0) A student may

earn a maximum of 6 credits in all enrollments for this course.

R: Open only to seniors and graduate students in Merchandising Management, Interior Design and Human Environment, and Apparel and Textiles.

Selected topics related to apparel design, historic costume and textiles, museum collections, or human behavior and ecological relations.

**891C. Topics in Interior Design and Human Environment**

Fall, Spring, Summer. 3(3-0) A student may

earn a maximum of 6 credits in all enrollments for this course.

R: Open only to seniors and graduate students in Merchandising Management, Interior Design and Human Environment, and Apparel and Textiles.

Selected topics related to facilities design and management, human shelter, or interior design preservation and conservation.

**892A. Seminar in Merchandising Management**

Fall, Spring, Summer. 3(3-0) A student may

earn a maximum of 6 credits in all enrollments for this course.

Consumer behavior, human resource management, or international merchandising management.

**892B. Seminar in Apparel and Textiles**

Fall, Spring, Summer. 3(3-0) A student may

earn a maximum of 6 credits in all enrollments for this course.

R: Open only to seniors and graduate students.

Apparel design, historic costume and textiles, museum collections, or human behavior and ecological relations.

**892C. Seminar in Interior Design and Human Environment**

Fall, Spring, Summer. 3(3-0) A student may

earn a maximum of 6 credits in all enrollments for this course.

R: Open only to seniors and graduate students.

Facilities design and management, human shelter, or interior design preservation and conservation.

**893A. Internship in Merchandising Management**

Fall, Spring. 1 to 3 credits. A student may

earn a maximum of 3 credits in all enrollments for this course.

R: Open only to graduate students. Approval of department.

Supervised internship in a professional setting in consumer behavior, human resource management, or international merchandising management.

**893B. Internship in Apparel and Textiles**

Fall, Spring. 2 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course.

R: Open only to graduate students. Approval of department.

Supervised internship in a professional setting in apparel design, historic costume and textiles, museum collections, or human behavior and ecological relations.

**893C. Internship in Interior Design and Human Environment**

Fall, Spring. 2 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course.

R: Open only to graduate students. Approval of department.

Supervised internship in a professional setting in facilities design and management, human shelter, or interior design preservation and conservation.

**898. Master's Project**

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

R: Open only to graduate students in the Department of Human Environment and Design.

Master's degree Plan B project. Participation in a project in apparel and textiles, interior design and human environment, or merchandising management.

**899. Master's Thesis Research**

Fall, Spring, Summer. 1 to 7 credits. A student may earn a maximum of 20 credits in all enrollments for this course.

R: Open only to graduate students in the Department of Human Environment and Design.

**900. Decision Processes in Design and Management**

Spring. 3(3-0)

R: Open only to doctoral students in Human Environment: Design and Management.

Theory and practice of decision processes in the design and management of human environments. Philosophy and methods of participation in environmental change.

**901. Research Problems in Human Environment and Design**

Fall. 3(3-0)

P: Research methods course. R: Open only to doctoral students in Human Environment: Design and Management.

Identification of researchable problems in apparel and textiles, interior design and facilities management, and merchandising management. Strategies and techniques for preparing grant proposals and documents for publication.

**999. Doctoral Dissertation Research**

Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 30 credits in all enrollments for this course.

**HUMAN MEDICINE**

**HM**

**College of Human Medicine**

**501. Preceptorship Training**

Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 24 credits in all enrollments for this course. Interdepartmental with Family Practice.

R: One year of graduate-professional program in College of Human Medicine.

Field experience in primary care.