

**472. Design and Layout**

Winter, Spring. 4(4-0)

Conceptualization, design, layout and specification of service industry facilities.

**473. Operations Research in the Service Industries**

Fall, Spring, Summer of odd-numbered years. 4(3-0) 305; MTA 316.

Application of marketing and operational research techniques to service industry management problems, emphasizing quantitative and analytical decision models designed for specific operations in this field.

**490. Operational Analysis in the Hospitality Industry**

Fall, Spring. 4(4-0) 306; Seniors.

Advanced management concepts, leading to an understanding of decision theory as applied to directed investigation into specific hospitality operations.

**499. Independent Study**

Fall, Winter, Spring, Summer. 1(1-0) to 15(1-0) May re-enroll for a maximum of 15 credits. Approval of school.

Research in any phase of food, lodging, hospitality, tourism or health facilities operations.

**811. Policy Formulation and Organization**

Spring. 4(4-0) 875, 888; MGT 806.

Development of goals, objectives and consistent business policies for the creation of dynamic and effective organizations for all phases of service industries.

**861. Economic Implications of Tourism**

Fall. 4(4-0) EC 860 or concurrently.

Economic, historical, philosophical, psychological, governmental and educational aspects and satisfactions of travel. The promotion of tourism; the business of travel and its relationships to the hospitality industry.

**875. Innovation in Hospitality Marketing**

Spring. 4(4-0) MTA 805 or concurrently.

Changing environment of the hospitality industry is examined and new developments in marketing are analyzed for potential innovative application in the hospitality sector.

**888. Financial Management for the Service Industries**

Winter. 4(4-0) AFA 840.

Covers leasing, franchising, tax considerations, planning to meet financial needs from internal sources or from capital markets, management of current and capital assets, including inventories and operational equipment.

**890. Special Problems**

Fall, Winter, Spring, Summer. 1 to 15 credits. Approval of school.

Opportunity for the outstanding student to engage in depth analysis of a service industry area of his choice that will result in a positive contribution to the field.

**896. Problems of the Service Industries**

Winter. 4(4-0) 888 or concurrently.

Formulation of plans based on analysis of situations and trends applying general business principles. Discussion of actual cases with leaders in service industries.

**898. Facilities Programming**

Fall. 4(4-0).

Application of principles and concepts drawn from many related disciplines to planning and operation of housing and food production systems, utilizing optimum physical and human resources.

**HUMAN DEVELOPMENT HD**

**College of Human Medicine**

**520. Genetics Clinic**

Fall, Winter, Spring, Summer. 1 to 3 credits. May re-enroll for a maximum of 9 credits.

Students will interview and examine patients with inheritable disorders, perform related laboratory diagnostic procedures, and participate in genetic counseling conferences and discussions.

**590. Special Problems in Human Development**

Fall, Winter, Spring, Summer. 1 to 6 credits. May re-enroll for a maximum of 12 credits. Human medicine students.

Each student will work under direction of a staff member on an experimental, theoretical or applied problem.

**608. Pediatric Specialty Clerkship**

Fall, Winter, Spring, Summer. 1 to 17 credits. May re-enroll for a maximum of 43 credits. HM 503; primary clerkship.

Clinical experience with pediatric patients under the direction of members of the faculty of the Department of Human Development and community pediatricians. Fall, Saginaw. Winter, Lansing. Spring, Grand Rapids. Summer, Flint.

**HUMAN ENVIRONMENT AND DESIGN HED**

**College of Human Ecology †**

**143. Design for Living I**

(140, TRA 140.) Fall, Winter, Spring. 3(3-0).

Perceptual development including analytical judgment through the study of design, a vital part of the matrix of living. Design components and principles as they relate to the function and ideas in the various phases of man's environment and daily life.

**144. Design for Living II**

Fall, Winter, Spring. 3(1-4) 143.

Use of design elements and application of principles in creative problems and media.

**152. Principles of Clothing Construction**

(TRA 152.) Fall, Winter, Spring. 3(2-2)

Principles of clothing construction related to fit, fabric and garment assembling.

**171. Textiles for Consumers**

Fall, Winter, Spring. 4(3-0).

A programmed sequence develops decision-making abilities in the selection of textile alternatives for various uses. Consumer-oriented concepts of durability, comfort, care and aesthetic appearance are used to evaluate products.

†Name changed July 1, 1970. Formerly College of Home Economics.

**201. Contemporary Retail Community (TRA 201.)**

Fall, Winter, Spring. 3(3-0) Sophomores.

The retail community as it responds with a supply of goods and services to the needs of the consumer.

**203. Selected Non-Textile and Apparel Merchandise**

(276, TRA 276.) Winter, Spring. 3(3-0) 143.

Selected non-textile and apparel merchandise as it fulfills consumer needs and expectations.

**210. Environmental Design: Space, Color and Texture**

Fall, Winter. 3(3-0) 144 or approval of department.

Space, color and texture as components of human environment, their effect upon and use by man.

**211. Environmental Design: Space, Color and Texture — Laboratory**

Fall, Winter. 2(2-0) 210 concurrently.

Discussion and demonstration of space, color and texture as components of human environment, their effect upon and use by man.

**213. Synthesis of Environmental Design Elements**

Winter, Spring. 2(2-0) 143 or approval of department.

The synthesis of design elements, space, shape, color and texture, and their organization as they are related to man's near-environment.

**214. Synthesis of Environmental Design Elements — Laboratory**

Winter, Spring. 2(2-0) 213 concurrently.

Discussion and demonstration of design elements, space, shape, color and texture, and their organization as they are related to man's near environment.

**220. Interior Space Design**

Fall, Winter. 3(0-6) 210.

Basic designing and drawing of interior space in relationship to human needs.

**221. Interior Color and Texture Design**

Winter, Spring. 3(0-6) 220 or concurrently.

The manipulation and development of color and texture as components of environmental space design.

**222. Basic Interior Design Synthesis**

Fall, Spring. 3(0-6) 221.

Experimentation and representation of space, color and texture as they relate to environmental interior design.

**230. History of Interior Design: Ancient to Medieval**

Fall. 3(3-0).

Historical development of furniture, textiles, and the other decorative arts in relation to interior design and architecture from ancient times to Medieval.

**252. Experimental Clothing Construction**

(TRA 252.) Fall, Winter. 3(2-2) 152 or pass departmental placement examination.

Application of principles of clothing construction with emphasis on fitting, alteration and couture construction techniques. Experimental execution and evaluation of techniques.

**254. Contemporary Fashion Analysis**

Fall, Winter, Spring. 3(2-2) 143 or approval of department.

Analysis of fashion as evidence of a dynamic relationship between man and his environment;

costume as an aesthetic expression, a sociological phenomenon, and a coordinating factor for the consumer market.

**256. Survey of World Dress**

Fall, Winter, Spring. 3(3-0).

Secular and ceremonial dress of ethnic, peasant, and folk societies. Emphasis on costume considering its contextual meaning and influence on surrounding cultures.

**301. Merchandising: Apparel and Home Furnishing Accessories I**

(TRA 301.) Winter, Spring. 4(4-0) 201, MTA 351.

Emphasis on disposable consumer income as it influences the channel of distribution through merchandising of apparel and home furnishing accessories.

**302. Clothing and Textiles Production and Distribution**

(TRA 302, 402.) Fall, Winter. 3(3-0)

Juniors.

Historical development of the foreign and domestic apparel industries. Present organization of the apparel industry in major foreign markets and primary and regional markets in the United States.

**320. Interior Design Material and Workroom Practices**

Fall, Winter. 4(3-2) 222.

The material used to create design in near-environment space and the workroom practices used to accomplish an installation after it has been designed.

**322. Interior Lighting Design**

Winter, Spring. 3(2-2) 213, approval of department.

The basic principles and practices of interior design lighting, light control, distribution, quality and quantity of light as it affects man's near environment.

**324. Interior Perspective and Media**

Fall, Winter. 5(0-10) 222 or approval of department.

The development of methods for design communication through manipulation of three dimensional drawings in many media.

**326. Interior Design Problems**

Fall, Spring. 3(0-6) May re-enroll for a maximum of 9 credits. 324 or approval of department.

Research and analysis of design systems through a broad choice of projects with a strong emphasis on independent development.

**330. History of Interior Design: Medieval to Rococo**

Winter. 3(3-0) 230, approval of department.

Historical development of furniture, textiles, and the other decorative arts in relation to interior architecture from the Medieval to Rococo.

**332. Human Needs in Housing**

Fall, Winter, Spring. 3(2-2).

Near environment studied as a determinant of individual and family development. Content and discussions focus on interpreting human-environmental relations for the plan and design of housing.

**353. Design Illustration**

Fall, Spring. 3(0-6) 143; 222 or 254; or approval of department.

Development and display of design ideas through visual means. Exercises intended to stimulate design perception and creativity in design illustration. Survey of philosophies as related to design innovation.

**355. Design Analysis: Flat Pattern**

(TRA 355.) Spring. 3(2-2) 252 or approval of department.

Garment design achieved by flat pattern methods. Problems include fitting a master pattern, designing from a block, pattern cutting and garment construction.

**365. Textiles Design**

(TRA 365.) Fall, Winter, Spring. 3(0-6) 143.

Two and three dimensional design as applied specifically to textiles already existent.

**367. Crafts: Design with Materials**

(382A.) Fall, Winter, Spring. 3(0-6) 143.

Development of creative design and craft techniques for vocational teaching in home economics.

**371. Advanced Textiles**

(372A, TRA 372A, 372.) Fall, Winter, Spring. 3(3-0) 171; Juniors.

Recent developments in fibers and textile products. Chemical and physical properties of fibers, yarns, fabric structures and finishes related to fabric performance.

**372. Textiles Laboratory**

(372B, TRA 372B.) Fall, Winter, Spring. 1(0-2) 171; 371 or concurrently; Juniors.

Laboratory experience in textile analysis and evaluation.

**373. Weaving**

(TRA 373.) Fall, Winter, Spring. 3(0-6) Approval of department.

Execution of original designs in the different weaving techniques. Warping of looms and the interpretation and use of drafts for pattern weaving are included.

**400H. Honors Work**

(TRA 400H.) Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 16 credits. Seniors; approval of department.

**404. Merchandising: Apparel and Home Furnishing Accessories II**

(TRA 404.) Fall, Spring. 4(4-0) 301.

Decision making application to the merchandising function. Merchandising mathematics; methods, procedures, and planning of merchandising budgets. Analysis of management information as provided by electronic data processing and other sources.

**405A. Field Study — Retail Operations**

(TRA 405A.) Fall. 6 credits. Senior majors; 301; additional selling experience and approval of department.

An off-campus supervised and coordinated field-study program in selected retail operations.

**405B. Special Problems in Retailing Fieldwork**

(TRA 405B.) Fall, Summer. Variable credit. May re-enroll for a maximum of 4 credits. Approval of department.

A special problem investigation designed to supplement classroom and field-study experience.

**405C. Exploration of the Textile and Apparel Industries**

Summer. 4 credits.

An aggregate analysis through field-travel of the distribution channel identifying function and service areas as they coordinate merchandise flow, from production to consumption.

**420. Professional Practices — Interior Design**

Fall, Winter. 3(3-0) 320.

The professional practices, standards, and ethics involved in the practice of interior design.

**421. Interior Design — Residential**

Winter, Spring. 4(1-6) 420 or concurrently.

Advanced interior design and planning with emphasis on communication with the residential client. Oral and graphic presentations of problem solving for environmental control.

**423. Interior Design — Contract**

Fall, Spring. 4(1-6) 420 or concurrently.

Advanced interior design and planning in contract types of design (commercial and institutional). Emphasis on methods of researching a design problem by the group or team method.

**425. Three Dimensional Structure and Construction**

Fall, Winter. 3(0-6) 353.

Various types of building structures and their method of construction as they are related to interior design. Presentation methods of three dimensional space relationships by designing and building scale models.

**427. Advanced Design Problems**

Winter, Spring. 3(0-6) 425 or concurrently.

Advanced structural investigation, analysis, solution, and presentation relative to physical aspects of interior design.

**430. History of Interior Design — Rococo through Victorian**

Spring. 3(3-0) 330 or approval of department.

Historical development of furniture, textiles, and the other decorative arts in relation to interior architecture from the Rococo era through the Victorian era.

**431. History of Interior Design — Modern**

Spring. 3(3-0)

Historical development of furniture, textiles, and accessories and their relationship to interiors; from the Victorian era to the present.

**433. Man and His Shelter**

(TRA 433.) Fall, Spring. 3(3-0) Interdepartmental with and administered by Urban Planning.

Interdisciplinary approach to man and his shelter; role of shelter in the community, housing as a cultural, economic, and institutional force; future developments and needs.

**434. Clothing for Man**

(TRA 434.) Fall, Winter. Summer of even-numbered years. 3(3-0) Juniors.

Sociocultural study of clothing as an artifact and symbol in Western and non-Western societies. Analysis of functions, cultural patterns, social organization, and sociocultural change.

**435. Psychology of Clothing**

Spring. 3(3-0) Juniors; PSY 170.

Clothing as it relates to self expression and the individual's adjustment to the physical and social environment.

**438. Field Study in Family Housing**

Fall, Winter, Spring. 4(2-4) 332.

The relationship of interior environment to the realization of family goals and values. Students help the family understand the dynamics of this relationship.

**455. Design by Draping**

(TRA 455.) Winter of even-numbered years. 3(1-4) 252, 254, 353.

Dress design based on the manipulation of fabric on a form. Emphasis on relation of fabric and construction techniques.

**459. Special Problems in Clothing**  
(TRA 459.) Fall, Winter, Spring, Summer. 2 to 4 credits. Two courses in clothing construction; approval of department.

**472. Textiles within an Ecological Framework**  
Fall, Winter, Summer. 2 to 3 credits. May re-enroll for a maximum of 6 credits. 171 and approval of department. Contemporary textile advancements which influence the ecosystems of man.

**473. Textile Economics**  
Spring. 3(3-0) 171; EC 201.  
Economic theory related to textile fiber production and distribution, fabric manufacture; price determination; recycling of resources; current economic concerns within textile industry.

**475. History of Apparel Textiles**  
Fall. 3(3-0) Juniors.  
Textiles used for apparel from prehistory to contemporary times. Analysis of the influence of cultural factors on the evolution of design and resources used.

**476. Clothing and Textiles in World Trade**  
Winter. 3(3-0) EC 201.  
Textile and apparel world trade as a response to patterns of production, political decisions and geographic distribution of resources.

**483. History of Costume: Western Dress**  
(TRA 483.) Winter. 3(3-0) Juniors.  
Important periods of costume; their relationship to life of the times and their importance in evolution and inspiration of modern dress.

**490. Problems in Human Environment and Design**  
(TRA 490.) Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 6 credits. Approval of department.  
Special problems and independent study in environmental concerns.

**498. Field Study**  
Fall, Winter, Spring, Summer. 4 to 8 credits. May re-enroll for a maximum of 8 credits. Approval of department.  
Study of environmental concerns in-depth through direct contact in field settings and/or travel.

**800C. Seminar in Human Environment and Design**  
(TRA 800C.) Fall, Winter, Spring. Summer of even-numbered years. 3(3-0) May re-enroll for a maximum of 9 credits. Six credits in design or crafts.

**800D. Seminar in Psycho-Social-Cultural Aspects of Clothing**  
(TRA 800D.) Winter. Summer of even-numbered years. 3(3-0) May re-enroll for a maximum of 9 credits. Approval of department.

**809C. Research Methods in Human Environment and Design**  
(TRA 809C.) Fall, Winter, Spring. Variable credit. May re-enroll for a maximum of 9 credits. Approval of department.

**813A. Special Problems in Textiles**  
(TRA 813A.) Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 9 credits. Approval of department.

**813B. Special Problems in Clothing Construction or Design**  
(TRA 813B.) Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 9 credits. Approval of department.

**813C. Special Problems in Related Arts**  
(TRA 813C.) Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 9 credits. Approval of department.

**813D. Special Problems in Sociological, Psychological or Economic Aspects of Clothing**  
(TRA 813D.) Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 9 credits. Approval of department.  
Problems for special study for the general home economics major or students taking a major or minor in clothing.

**815. Literature in Clothing and Textiles**  
(TRA 815.) Fall. Summer of even-numbered years. 3(3-0) Approval of department.  
Organized investigation into the recent literature in the several areas of clothing and textiles.

**819. Research Methods**  
(TRA 819.) Winter. 3(3-0) Approval of department. Interdepartmental and administered jointly with the Family Ecology Department.

**836. Research and Developments in Family Housing**  
(TRA 836.) Winter. 3 to 5 credits. 819 or concurrently; approval of department.  
Historical perspective of research accomplishments in housing, major shaping forces, financial support, landmark studies and major contributors. Consideration of present research and developments suggesting researchable areas.

**837. Generalization and Concepts for Teaching Family Housing**  
(TRA 837.) Fall. Summer of odd-numbered years. 3(3-0) FE 823, approval of department.  
Major concepts dealing with producing, securing, maintaining and evaluating housing. Focus placed on content for teaching programs in secondary schools and other educational organizations.

**838. Housing for People with Special Needs**  
(TRA 838.) Spring. 3(3-0) Approval of department.  
Major needs in housing of the poor, elderly, handicapped, migrant and other groups with specific requirements.

**840. Clothing and Human Behavior**  
(TRA 840.) Spring; Summer of odd-numbered years. 3(3-0)  
Theories of human behavior which relate to clothing and dress.

**856. Dress Design: Advanced Pattern Making**  
(TRA 856.) Spring. 3(1-4) Six credits in clothing construction.  
Garment design analysis and application of flat pattern principles to advanced designs. Includes fitting and garment construction. Basic to further study in clothing design at graduate level.

**899. Research**  
(TRA 899.) Fall, Winter, Spring, Summer. Variable credit. Approval of department.

**HUMANITIES HUM  
University College**

Students may earn credit in only one of the courses in each of the following three groups:  
1. 201, 211, 221, 231, 261, 281H  
2. 202, 212, 222, 232, 262, 282H  
3. 203, 213, 223, 233, 263, 283H

**152. Introduction to Humanities: The Performing Arts**  
Fall, Winter. 4(3-2) Primarily for Freshmen. Purchase of a limited number of tickets is required.  
Preparation for, attendance at, and evaluation of events in the performing arts on the University campus. Curriculum will be based on campus events scheduled for the term.

**199. Humanities: The Greek World**  
Fall, Winter. 2(3-0) Students may not earn credit in 199 and 201. Sophomores; ATL 101, or approval of department.  
The origins and development of Western Civilization as seen through an interdisciplinary study of the history, literature, philosophy, religion, and art of classical Greece. This course is the equivalent of the first half of 201.

**200. Humanities: The Roman World**  
Winter, Spring. 2(3-0) Students may not earn credit in 200 and 201. Sophomores; ATL 101, or approval of department.  
The origins and development of Western Civilization as seen through an interdisciplinary study of the history, literature, philosophy, religion, and art of classical Rome and of the beginnings of the Judeo-Christian tradition. This course is the equivalent of the second half of 201.

**201. Humanities in the Western World (241A.)** Fall, Winter, Spring, Summer. 4(4-0) Sophomores.  
The origins and development of Western Civilization as seen through an interdisciplinary study of the history, literature, philosophy, religion, and art of the civilizations of Greece and Rome and of the Judeo-Christian tradition. Uses an anthology of source readings, selected paperbacks, history and art texts.

**202. Humanities in the Western World (242A.)** Fall, Winter, Spring, Summer. 4(4-0) Sophomores; 201 preferred; or 211, 221, 231, or 261, or 281H.  
Deals with the medieval and early modern periods of Western culture.

**203. Humanities in the Western World (243A.)** Fall, Winter, Spring, Summer. 4(4-0) Sophomores; 202 preferred; or 212, 222, 232, 262, or 282H.  
Deals with aspects of modern Western culture since 1700.

**211. Humanities: Great Books of Western Culture (241B.)** Fall. 4(4-0) Sophomores.  
Emphasizes selected major works of literature, philosophy, religion, history, and art in an interdisciplinary study of the origins of Western culture in the civilizations of Greece and Rome and in the Judeo-Christian tradition. Uses selected paperbacks, history and art texts.

**212. Humanities: Great Books of Western Culture (242B.)** Winter. 4(4-0) Sophomores; 211 preferred; or 201, 221, 231, 261, or 281H.  
Emphasizes selected major literary, philosophical, religious, historical and artistic works of the medieval and early modern periods of Western culture.