

531. Medical Genetics
Spring, 1(1-0) ANT 544 or approval of department.

Basic genetic principles and their application to clinical medicine, prenatal genetic diagnosis, exercises in genetic counseling and the importance of relevant laboratory tests.

532. Phenomena of Development
Fall, 5(5-0) H D 531 or approval of department.

Normal psychological and physical development of the human including intellectual, social, emotional and endocrinological growth from infancy through adolescence. Clinical examples highlight deviations from the normal course of development.

590. Special Problems in Human Development
Fall, Winter, Spring, Summer, 1 to 6 credits. May reenroll for a maximum of 12 credits. Human Medicine students or approval of department.

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 reenroll for a maximum of 43 credits. H M 602; 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.

609. Human Development and Pediatric Sub-Specialties
Fall, Winter, Spring, Summer, 1 to 17 credits. May reenroll for a maximum of 34 credits. H M 602.

Elected experiences in selected clinical and basic sciences related to pediatrics and human development.

HUMAN ENVIRONMENT AND DESIGN HED

College of Human Ecology

143. Design for Living I
Fall, Winter, Spring, 3(3-0)

Perceptual development including analytical judgement 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) HED 143.
Use of design elements and application of principles in creative problems and media.

152. Principles of Clothing Construction
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.

201. Contemporary Retail Community
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
Winter, Spring, 3(3-0) HED 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) HED 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) HED 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) HED 210.

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) HED 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) HED 210 or concurrently.

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

221. Interior Color and Texture Design
Winter, Spring, 3(0-6) HED 220 or concurrently.

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

222. Basic Interior Design Synthesis
Spring, 3(0-6) HED 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.

239. Housing Conservation
Spring, 3(3-0) Interdepartmental with and administered by the Department of Agricultural Engineering.

Skills and techniques in conserving, repairing and remodeling existing housing. Structural components of housing and evaluation of housing structure.

252. Experimental Clothing Construction
Winter, Spring, 3(2-2) HED 152 or pass departmental placement examination.

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

254. Contemporary Fashion Analysis
Fall, Winter, Spring, 3(2-2) HED 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)

Clothing and its relationship to the physical body, to aesthetic interests of humans, and to societal type. Concepts amplified through cross-cultural case studies.

302. Clothing and Textiles Production and Distribution
(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, Spring, 4(3-2) HED 222. Juniors.

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
Fall, Spring, 3(2-2) HED 213, approval of department. Interdepartmental with the Department of Engineering.

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) HED 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
Winter, Spring, 3(0-6) May reenroll for a maximum of 9 credits. HED 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) HED 230, approval of department.

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

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

- 332. Human Needs in Housing**
Fall, Winter, Spring. 3(3-0)
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.
- 333. Design Illustration**
Fall, Spring. 3(0-6) HED 143; HED 222 or HED 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**
Fall. 3(2-2) HED 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.
- 360. Merchandising I: Apparel and Home Furnishing Accessories**
Winter, Spring. 4(3-1) HED 201, MTA 351, AFA 201.
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.
- 365. Textiles Design**
Fall, Winter, Spring. 3(0-6) HED 143.
Two and three dimensional design as applied specifically to textiles already existent.
- 367. Crafts: Design with Materials**
Fall, Winter, Spring. 3(0-6) HED 143.
Development of creative design and craft techniques for vocational teaching in home economics.
- 371. Advanced Textiles**
Fall, Winter, Spring. 3(3-0) HED 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**
Fall, Winter, Spring. 1(0-2) HED 171; HED 371 or concurrently; Juniors.
Laboratory experience in textile analysis and evaluation.
- 373. Weaving**
Fall, Winter, Spring. 3(0-6)
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**
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 16 credits. Seniors; approval of department.
- 405A. Field Study–Retail Operations**
Fall. 6 credits. Senior majors; HED 360; 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**
Fall, Summer. Variable credit. May reenroll 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.
- 406. Merchandising II: Apparel and Home Furnishing Accessories**
Fall, Spring. 4(4-0) HED 360, MGT 302 or MGT 310.
Retail managements' responsibilities in supervising personnel to effectively communicate with the consumer through sales promotion and personal selling.
- 420. Professional Practices–Interior Design**
Fall. 3(3-0) HED 320.
The professional practices, standards, and ethics involved in the practice of interior design.
- 421. Interior Design–Residential**
Winter, Spring. 4(1-6) HED 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, Winter. 4(1-6) HED 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) HED 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) HED 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) HED 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**
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. Culture, Society and Dress**
Fall, Spring. 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**
Winter. 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) HED 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**
Spring. 3(1-4) HED 252, HED 254, HED 355.
Dress design based on the manipulation of fabric on a form. Emphasis on relation of fabric and construction techniques.
- 459. Special Problems in Clothing**
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. 3(3-0) HED 171 or approval of department.
Contemporary textile advancements which influence the ecosystems of man.
- 473. Textile Economics**
Spring. 3(3-0) HED 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**
Winter. 3(3-0) HED 171 and 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**
Spring. 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**
Spring. 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
Fall, Winter, Spring, Summer. Variable credit. May reenroll 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 reenroll 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
Fall, Winter, Spring, Summer of even-numbered years. 3(3-0) May reenroll for a maximum of 9 credits. Six credits in design or crafts.

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

809C. Research Methods in Human Environment and Design
Fall, Winter, Spring. Variable credit. May reenroll for a maximum of 9 credits. Approval of department.

813A. Special Problems in Textiles
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 9 credits. Approval of department.

813B. Special Problems in Clothing Construction or Design
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 9 credits. Approval of department.

813C. Special Problems in Related Arts
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 9 credits. Approval of department.

813D. Special Problems in Sociological, Psychological or Economic Aspects of Clothing
Fall, Winter, Spring, Summer. Variable credit. May reenroll 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.

814. Workshops in Human Environment and Design
Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 10 credits. Approval of department.
Provides for a concentration on specific and relevant topics of value to graduate students and practicing professionals in major areas of the department.

815. Literature in Clothing and Textiles
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
Fall, Spring. 3(3-0) Approval of department. Interdepartmental and administered jointly with the Department of Family Ecology.

836. Research and Developments in Family Housing
Winter. 3 to 5 credits. HED 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
Fall, Summer of odd-numbered years. 3(3-0) F E 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
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
Spring; Summer of odd-numbered years. 3(3-0)
Theories of human behavior which relate to clothing and dress.

899. Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

HUMANITIES HUM

University College
Students may earn credits for satisfying the University's general education graduation requirement in the area of the humanities by selecting one of the following options:

- Option a. one course "only" from each of the following groups (either for general education or elective credits.):
1. 199-200, 201, 211, 221, 261, 281H
 2. 202, 212, 222, 262, 282H
 3. 203, 213, 223, 263, 283H
- or
- Option b. any three of the following courses: 291, 292, 293, 294, 295
- or
- Option c. a combination of 12 credits from the two preceding options.

Additional courses may be taken for elective credit, subject to the provisions in Option a. above.

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 HUM 199 and HUM 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 HUM 201.

200. Humanities: The Roman World
Winter, Spring. 2(3-0) Students may not earn credit in HUM 200 and HUM 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 HUM 201.

201. Humanities in the Western World: Ancient
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: Medieval and Early Modern
(242A.) Fall, Winter, Spring, Summer. 4(4-0) Sophomores; Recommend HUM 201; or HUM 211, HUM 221, HUM 261, or HUM 281H.
Deals with the medieval and early modern periods of Western culture.

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

211. Great Books of Western Culture, Ancient
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. Great Books of Western Culture, Medieval and Early Modern
(242B.) Winter. 4(4-0) Sophomores; Recommend HUM 211; or HUM 201, HUM 221, HUM 261 or HUM 281H.
Emphasizes selected major literary, philosophical, religious, historical and artistic works of the medieval and early modern periods of Western culture.

213. Great Books of Western Culture, Modern
(243B.) Spring. 4(4-0) Sophomores; Recommend HUM 212; or HUM 222, HUM 262 or HUM 282H.
Selected major literary, philosophical, religious, historical and artistic works of the modern period of Western culture.