I. **TITLE:** Anatomy of Buildings.

II. **CATALOG DESCRIPTION:**
Study of the function, physical makeup, and working principles of various building systems, components and materials. Emphasis on the basic design principles and interdependence of the structural, utility and climate control systems. This course is designed to enhance the student’s knowledge of the total building process. Prerequisite: MAT130, ENT 286.

III. **PURPOSE:**
Provide an understanding of standard building components and systems with their respective construction principles and, to introduce in comparison, concepts for environmentally sustainable design and construction strategies required in high performance buildings.

IV. **COURSE OBJECTIVES:**
A. Learn the roles, relationships, and responsibilities within the AEC industry
B. Learn the delivery methods in contracting for building construction
C. Learn basic properties of construction materials
D. Learn the fundamentals and terminology of the basic components and systems of commercial building construction
E. Learn the emerging technologies and materials employed in environmentally sustainable building design and construction
F. Complete team-based project

V. **CONTENT OUTLINE:**
A. Building Process Overview
B. Environmentally Sustainable Practices for Designing and Constructing Buildings
C. Rules, Regulations, Conditions, and Requirements
D. Properties of Materials
E. Building Systems Overview and CSI Masterformat
F. Concrete, Masonry, Metal and Wood Technology
G. Thermal Protection and Roofing Components
H. Cladding, Doors & Windows
I. Finishes
J. Specialties, Equipment, Furnishings, Conveying Systems
K. Mechanical Systems
L. Electrical and Communication Systems
M. Sustainability and High-Performance Buildings
VI. INSTRUCTIONAL ACTIVITIES:
A. Lectures
B. Discussion
C. Handouts
D. Video broadcast (To Be Determined)

VII. FIELD, CLINICAL AND/OR LABORATORY EXPERIENCES:
A. Field trips to construction sites are contingent on arrangements.
B. Classroom webcast instruction

VIII. RESOURCES:
A. MasterSPEC A/S/C digital specifications library (see instructor)
B. Sweet’s Architectural Catalog Files (Including use of the Internet for product review and materials selection at www.sweets.com)
B. Architectural Graphic Standards

IX. GRADING PROCEDURES:
Grades will be calculated based on the following criteria:
A. Tests & Projects 75%
B. Final Exam 20%
C. Participation and Attendance 5%

Grade Scale:
A: 100-90%
B: 80-89%
C: 70-79%
D: 60-69%
E: 0-59%

The instructor retains the right to adjust the grading system to allow for unusual circumstances.

X. ATTENDANCE POLICY & MAKEUP PROCEDURES:
Murray State University has an established attendance policy. Attendance in this class is important for the student to complete his or her work and to receive design consultation and instruction. For necessary absences, the student must make prior arrangements with the instructor, or make-up work or exams WILL NOT be provided or accepted. With the third unexcused absence, the student grade will be decreased by one letter grade and further absences will result in a drop of one-half letter grade each. For the purpose of attendance, three tardies equal one absence. Attendance is recorded at intermittent class periods throughout the semester.

XI. ACADEMIC HONESTY POLICY:
Cheating, plagiarism (submitting another person’s material as one’s own), or doing work for another person which will receive academic credit are all impermissible. This includes the use of unauthorized books, notebooks or other sources in order to secure or give help during an examination; the unauthorized copying of examinations, assignments, reports or term papers; or the
presentation of unacknowledged material as if it were the student’s own work. Disciplinary action may be taken beyond the academic discipline administered by the faculty member who teaches the course in which the cheating took place.

XII. TEXT AND REFERENCES:

XIII. PREREQUISITES:
Prerequisite: MAT130, ENT 286.

XIV. UNIVERSITY POLICIES:
Murray State University endorses the intent of all federal and state laws created to prohibit discrimination. Murray State University does not discriminate on the basis of race, color, national origin, gender, sexual orientation, religion, age, veteran status, or disability in employment, admissions, or other provision of services and provides, upon request, reasonable accommodation including auxiliary aids and services necessary to afford individuals with disabilities equal access to participate in all programs and activities.

The following items are prohibited from class and from classrooms, drafting and computer labs at all times:

1. Use of email.
2. Use of instant messenger from any provider.
4. Use of cellular telephones. Turn them off and put them away. They are not to be left on your desks.
5. Beverages.
6. Food.
7. Ipods, CD Players, Headphones, or any other listening devices.
8. Tobacco products

My contact information is as follows:

M. Gregory Mayes AIA
Dept. of Industrial & Engineering Technology,
253G Industry & Technology Center, Murray State University
Murray, KY 42071-3347
Phone: 270-809-3656
Email: greg.mayes@murraystate.edu

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