

TXMI 3370 RESIDENTIAL BUILDING SYSTEMS AND LIGHTING DESIGN
FALL 2009
(3 Credit Hours)
Class Time: 8:00 am – 9:15am
Class Location: 216 Dawson Hall

Department of Textiles, Merchandising & Interiors ~ College of Family & Consumer Sciences ~ The University of Georgia

INSTRUCTOR: Ms. Jaya Rose, ASID
OFFICE LOCATION: 215D Barrow Hall
OFFICE HOURS: M, W, F 11:00 am-12:00 pm and T, TH 12:15pm – 1:15pm
E-MAIL: jayarose@uga.edu
TELEPHONE: 706-542-6003

COURSE DESCRIPTION

Examine the principals of residential building systems including lighting, electrical, HVAC, plumbing, acoustical and sustainability. Emphasis is placed on creative solutions for systems utilization and integration in to successful design solutions.

REQUIRED TEXTBOOKS

Kitchen & Bath Systems	Germer	NKBA	1-887127-52-6
Kitchen & Bath Lighting Made Easy	De Luca	NKBA	1-887127-06-2
Lighting Design Basics	Karlen + Benya	NKBA	978-0-471-38162-4

MATERIALS

- Interior Design Magazines– Purchase (4) different, current design publications. Select what ever appeals to your design sensibility. Choose publications that focus on interior design only.

 Recommended - Elle Décor, Metropolitan Home, House & Garden, Dwell, Interior Design, Wallpaper, Architectural Digest
- 1” Black (3) ring Binder (to maintain assignments throughout the semester), hole punch, clear acetate inserts for 8.5 x 11 paper size
- Presentation Materials (as needed)- camera, model making (steel ruler, x-acto knife, cutting surface, cardboard, white museum board, white glue)
- Lamp Making Materials – Items needed to produce working light product.

COURSE FORMAT

The format of the course will include a combination of the following: (a) lectures; (b) discussions of text materials; (c) Power Point presentations (d) in class assignments (e) model making (f) field trips. Outside of the classroom: (a) library (b) computer and personal sources to be used as needed. Ample time will be allowed to address any questions that you may have in regards to the lectures, required readings and presentations. It is important that you ask questions, as this provides for clarity and a deeper understanding of key concepts.

COURSE OBJECTIVES

1. Understand individual building systems within residential design and learn how to integrate these systems in interior design development and final design solutions.
2. Ability to identify and specify various luminaires and lamp types for use residential and commercial applications.
3. Ability to read and design lighting and mechanical plans.
4. Develop an understanding of home appliances, entertainment equipment and technology systems and how to integrate these items into successful design solutions.

STUDENT EXPECTATIONS

1. This is a very detail orientated course. The work load is rigorous and students are advised to attend each class session. Students who attend class regularly will benefit from a thorough understanding of the material. There are no excused absences. You are allowed up to 3 absences before points are deducted from final average. (See Course Evaluation)
2. I strongly encourage students to participate in class lectures and ASK QUESTIONS. This will benefit EVERYONE. Participation requirements below.
3. Student Reviews/Project Critiques: Student work will be displayed for class review and critique. A design critique meeting involves class participation to discuss a set of design sketches, prototypes and final projects. Critiques focus on evaluating a set of existing ideas, and identify future directions or changes. The opportunity for learning during critiques is fundamental to the design process with students learning from each other's successes and challenges. This is a safe environment to discuss new ideas, flush out challenges within the assignments and provide an opportunity for students to support their design concepts verbally (as you will with future clients.) This experience requires participation from all students and will be considered within the grading review for this course.
4. Assignments are due in class on the date and time stated on the syllabus. Any assignment turned in on time indicates a lack of professionalism by the student designer and will not be accepted.

NOTE: DO NOT plan to print your assignments on due date just before class. You risk circumstances that may prohibit the submittal of your work in a timely, professional manner. The printer tends to get overloaded with students who try to finish at the last minute. If you wait to print just before class and there are computer or printing issues that delay submittal of your assignments you will NOT receive credit. The computer and printer malfunctions are not valid excuses for not submitting work as assigned.

NO LATE WORK WILL BE ACCEPTED.

5. Students are expected to be prepared to begin class session on time and prepared for the work scheduled. Readings are to be completed before class. Students shall be able to discuss information gleaned from reading assignments during class discussions.
6. "Wikipedia" is not an academic source for any class assignments at The University of Georgia. "Wikipedia" is great for fast facts and general concepts but is not reliable or considered trustworthy.
7. The instructor is available during scheduled office hours and by appointment. The instructor may not be available before or after class period ends.

8. Taking a makeup exam is a privilege, not a right. Make-up exams will only be granted with proper documentation (medical) or extremely unusual circumstances. Make-up exams will be scheduled per the instructor.
9. All work turned in to the Instructor will be assessed as if you were turning it into a client for review. Please follow directions for each assignment. Remember, your work needs to represent a professional design aesthetic – clean, consistent, typed (double spaced) or architecturally lettered as minimum.
10. All research (including images) is to be properly cited within a bibliography. Your work must conform to APA 5th Edition publication manual. Refer to handouts provided in class.

Student attendance and participation is expected and required and will be evaluated at the instructor’s discretion. Students who miss class are expected to obtain class information from another student. It is difficult to gain and understand the information presented when absent from class and impossible for the instructor to give additional lectures. This course is very detail oriented, requiring your complete attention during class sessions.

- Class Participation (40 points)
Participation points will be assigned based on thoughtful, attentive participation during lectures, critiques and classroom assignments and activities. Be an active member of your classroom!
- Assignments 01-06 (10 points each – total 60 points)
Six (6) assignments as directed to learn practical application of course material. Refer to “TXMI 3370 Course Assignments”
- Appliance Research Assignment + Presentation (100 points)
Students present research on specific appliances (PowerPoint presentation)
- Luminaire Project (100 points)
Design and construction of working prototype.
- Water Project (100 points)
Design project per instructions provided.
- HVAC Project (100 points)
Design project per instructions provided.
- Exams (100 points each – total 300 points)
Each exam is worth 100 points. All material covered in lectures, reading assignments, design projects and in class conversations will be considered for inclusion in exams. All information is important.

- Grading Scale –

COURSE EVALUATION

- Requirements –

Participation	40	
Research Project	100	
Exercises 01-06	60	
Luminaire Project	100	
Water Project	100	
HVAC Project	100	
Exams	300	
	800 points	

768 – 800 = A	96 – 100%	= A
720 – 768 = A-	90 – 95	= A-
688 – 720 = B+	86 – 89	= B+
664 – 688 = B	83 – 85	= B
640 – 664 = B-	80 - 82	= B-
608 – 640 = C+	76 - 79	= C+
584 – 608 = C	73 - 75	= C
560 – 584 = C-	70 - 72	= C-
480 – 560 = D	60 - 69	= D
00 – 480 = F	00 – 59	= F

0-3 absences	0 points	6 absences	-30 points
4 absences	-10 points	7 absences	-40 points
5 absences	-20 points	8 absences	WF

Eight (8) absences will result in the students grade of Instructor submitted WF indicating the student has not satisfied the regular attendance policy.

COURSE POLICIES

- Academic Honesty –
 “Academic Honesty” means performing all academic work without plagiarism, cheating, lying, tampering, stealing, receiving unauthorized or illegitimate assistance from any other person, or using any source of information that is not common knowledge (A Culture of Honesty, 2006)

“Academic Dishonesty” means knowingly performing, attempting to perform, or assisting any other person in performing any academic work that does not meet this standard of academic honesty (A Culture of Honesty, 2006)

Under no circumstances will academic dishonesty be acceptable or permitted. Should this happen, the student will be notified and appropriate action will be taken as outlined in the UGA student handbook. Please refer to the “Academic Honesty Policy” website for any questions in regards to policies and/or procedures: http://www.uga.edu/ovpi/honesty/culture_honesty.html

“All academic work must meet the standards contained in “A Culture of Honesty.” Each student is responsible to inform themselves about those standards before performing any academic work.”
- Special Needs –
 Students with disabilities who require reasonable accommodations in order to participate in course activities or meet course requirements should contact the instructor immediately and provide paperwork from UGA’s Disability Resource Center.
- Attendance –
 On-time class attendance is mandatory and will be recorded at the beginning of each class period. **There are no excused absences.** There is no need to notify me of your absence or to bring excuse notes to class (including sickness, over sleeping, car issues, interviews, etc) You are allowed (3) absences before points are subtracted from your final average score for this class. (See Course Evaluation above)
- Tardiness –
 Students are expected to be in their seat at the start of each class. A student is considered tardy for the class if he/she is ≤15 minutes late. For every two (2) tardies, one (1) absence will be documented on the student’s attendance record for the course. If the student does arrive late please be mannerly. It is the student’s responsibility to inform the instructor of their presence at the end of the class period if the student was tardy.
- Leaving Studio Early:
 Students may not leave studio without instructor’s approval. Leaving before designated end of class will result in 1/2 absence for that class
- Excessive Absences –
 Students will be dropped from the course by the Instructor on the 8th absence and will receive an Instructor submitted WF for the course
- Outside Class Assistance –
 Students, who attend class regularly and promptly, may seek outside assistance from the instructor during scheduled office hours. If assistance is desired, please schedule specific appointment so the instructor can plan and prepare for your visit. Students may “stop by” during office hours for any quick questions.

Please seek assistance early in the semester when it is most beneficial and when the instructor's schedule is more open. Students waiting until the end of the semester may not be able to acquire enough needed assistance or receive the full benefit of such assistance. Students may not seek assistance for concepts covered in a class that they missed, and it will become the student's responsibility to obtain the information covered.

- Equipment/Materials/Supplies/Textbooks – Students are expected to bring the needed equipment and reference textbooks to all classes. Failure to do so will result in an absence for that class.
- Class Participation – Students are expected to be prepared and on-time for class, to pay attention, and to NOT read and/or work on materials/projects unrelated to the course. Failure to comply will result in being counted absent for the class.
- Class Notes – Students are expected to take notes when the instructor is lecturing and/or giving project instructions. The instructor will not repeat any information already delivered in class. However, students may obtain clarification of any information for which they have taken notes on.
- Due Dates – All work will be due at the beginning of the class date as designated in the syllabus' "Topical Outline," unless otherwise stated.
- Late Work – **NO LATE WORK WILL BE ACCEPTED FOR GRADE.** The instructor will meet with student during a scheduled appointment to review the work for further improvement.
- Documented Excuses – There are no excused absences regardless of the circumstances. Excuse notes do not have impact on this policy and will not be accepted by instructor. On the 8th absence with student will receive a faculty imposed WF for the course.
- Cell Phones – Cell phones are to be turned OFF during class. **NO EXCEPTION.** Students may use their phones during designated breaks outside of the classroom.
- Disruptive Behavior – Students will be asked to leave class and marked absent if their behavior is rude/disrespectful or if they engage in "personal conversations" during lectures. If a student is unhappy about course issues the student is encouraged to make an appointment to discuss with instructor OUTSIDE of classroom meetings. The instructor will happily consider any issues that students present in a professional manner to the instructor.
- Course Modifications – The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary and are to be expected.
- Late Adds – Late adds for this course will not be approved except on exceptional circumstances.

TOPICAL / TENTATIVE OUTLINE NOTE: COURSE SCHEDULE IS FLUID – EXPECT MODIFICATIONS!

Date:		Subject(s):	Required Reading(s) and/or Assignment(s) Due:
Week 1			
Tuesday	Aug. 18	<ul style="list-style-type: none"> • Course Introduction • Designer/Product/Project • The Natural Environment • Sustainability – LEED, Cradle to Cradle 	<ul style="list-style-type: none"> • Read: Kitchen & Bath Systems: Chapter 1 + 2 for class 8-25
Thursday	Aug. 20	<ul style="list-style-type: none"> • Designer/Product/Project • TED video: William McDonough • The Human Body and the Built Environment • Site Conditions + Building Placement 	<ul style="list-style-type: none"> • DUE: Student Information Sheet
Week 2			
Tuesday	Aug. 25	<ul style="list-style-type: none"> • Designer/Product/Project • Building Systems Integration- Design Considerations • Building Codes • Assignment 01: Codes for Interiors 	<ul style="list-style-type: none"> • READ: K + B Systems- Chapter 9 for class 9-3
Thursday	Aug. 27	<ul style="list-style-type: none"> • Designer/Product/Project • Review: Specification Sheets • In Class Assignment 02: Specification Sheets • Quick Quiz 1 – Extra Credit (1 point) 	
Week 3			
Tuesday	Sept. 1	<ul style="list-style-type: none"> • Designer/Product/Project • Building Equipment – Appliances, Fixtures and Equipment Specifications and Integration • Review: Research Project Research Format Assign Research Topics 	<ul style="list-style-type: none"> • DUE: Assignment 02 Specification Sheets • READ: Lighting Design Basics Chapter 4 + 5 for class 9-3
Thursday	Sept. 3	<ul style="list-style-type: none"> • Designer/Product/Project • Building Equipment – Appliances • Electrical System <ul style="list-style-type: none"> - Design Integration Issues (switching) 	<ul style="list-style-type: none"> • DUE: Assignment 01- Codes for Interiors <p>FOR CLASS MONDAY SEPT. 8</p> <ul style="list-style-type: none"> • READ: K + B Lighting Made Easy <ul style="list-style-type: none"> -Introduction -Chapter 1 • READ: Lighting Design Basics <ul style="list-style-type: none"> -Chapter 1,2 and 3

Date:		Subject(s):	Required Reading(s) and/or Assignment(s) Due:
Week 4			
Tuesday	Sept. 8	<ul style="list-style-type: none"> • Designer/Product/Project • Lighting - Introduction • Assignment 03: Lighting 	<ul style="list-style-type: none"> • READ: K + B Lighting Made Easy Chapter 2 for class 9-10
Thursday	Sept. 10	<ul style="list-style-type: none"> • Designer/Product/Project • Lighting – Color and Reflectance • Quick Quiz 2 – Extra Credit (1 point) 	<ul style="list-style-type: none"> • DUE: Assignment 03: Lighting • READ: K + B Lighting Made Easy Chapter 3 + 4 for class 9-15
Week 5			
Tuesday	Sept. 15	<ul style="list-style-type: none"> • Designer/Product/Project • Lighting – Spacing + Measurements (calculations) • Research Presentations begin • Assignment 04: Lighting • Handout – Luminaire Assignment 	<ul style="list-style-type: none"> • DUE: Research Projects DUE BEGINNING OF CLASS • Review Assignment: Luminaire Project
Thursday	Sept. 17	<ul style="list-style-type: none"> • Designer/Product/Project • Lighting – Spacing + Measurements continued • EXAM I – Review • Research Presentations continued 	<ul style="list-style-type: none"> • DUE: Assignment 04: Lighting
Week 6			
Tuesday	Sept. 22	<ul style="list-style-type: none"> • Designer/Product/Project • EXAM I • Students Grade Exam I • Review: Luminaire Project • Assignment: Luminaire Project: Research + Schematics (01) 	<ul style="list-style-type: none"> • READ: K + B Lighting Made Easy Chapter 5 for class 9-24
Thursday	Sept. 24	<ul style="list-style-type: none"> • Designer/Product/Project • Lighting –Lamps + Fixtures • Research Presentations continued • Quick Quiz 3 – Extra Credit (1 point) • Assignment 05 – Lighting 	<ul style="list-style-type: none"> • READ: K + B Lighting Made Easy Chapter 6 for class 9-29
Week 7			
Tuesday	Sept. 29	<ul style="list-style-type: none"> • Designer/Product/Project • Lighting – Practical Applications • Research Presentations continued 	<ul style="list-style-type: none"> • DUE: Assignment 05: Lighting • READ: Lighting Design Basics Chapter 10 for class 10-1

Date:		Subject(s):	Required Reading(s) and/or Assignment(s) Due:
Thursday	Oct. 1	<ul style="list-style-type: none"> Designer/Product/Project Lighting – Practical Applications Research Presentations continued Assignment 06: Lighting Assignment: Luminaire Project (02) Design Development Drawings 	<ul style="list-style-type: none"> DUE: Luminaire Project (01) Research and Schematic Drawings READ: K + B Systems Chapter 10 for class 10-6 thru 10-13
Week 8		(MID-TERM OCT. 8TH)	
Tuesday	Oct. 6	<ul style="list-style-type: none"> Designer/Product/Project Lighting- Practical Applications Research Presentations completed Assignment: Luminaire Project (03) Rough Model 	<ul style="list-style-type: none"> DUE: Assignment 06- Lighting
Thursday	Oct. 8	<ul style="list-style-type: none"> Designer/Product/Project FIELD TRIP: LOWES – 8:30 am No Quick Quiz Today! 	<ul style="list-style-type: none"> DUE: Luminaire Project (02) Design Development Drawings
Week 9			
Tuesday	Oct.13	<ul style="list-style-type: none"> Designer/Product/Project Lighting – Practical Applications Review for Exam 2 Assignment: Luminaire Project (04) Orthographic Drawings 	<ul style="list-style-type: none"> DUE: Luminaire Project (03) Rough Model
Thursday	Oct. 15	<ul style="list-style-type: none"> Designer/Product/Project EXAM 2 Review exams 	<ul style="list-style-type: none"> READ: K + B Systems- Chapter 6 + 7 for class 10-20
Week 10			
Tuesday	Oct. 20	<ul style="list-style-type: none"> Designer/Product/Project Water: Distribution, Hot + Cold, Filters and Testing Water Filters + Testing Drains, Waste and Vent Systems 	<ul style="list-style-type: none"> DUE: Luminaire Project (03) Orthographic Drawings READ: K + B Systems: Chapter 8 For class 10-22
Thursday	Oct. 22	<ul style="list-style-type: none"> Designer/Product/Project Water, continued Water Features Quick Quiz 5 – Extra Credit (1 point) Assignment: Water Project Research + Schematics (01) 	

Date:		Subject(s):	Required Reading(s) and/or Assignment(s) Due:
Week 11			
Tuesday	Oct. 27	<ul style="list-style-type: none"> Designer/Product/Project Design Merchandising – Showroom displays Interior Design Staging 	<ul style="list-style-type: none"> READ: K + B Systems: Chapter 3 + 4 for class 11-10
Thursday	Oct. 29	<ul style="list-style-type: none"> Designer/Product/Project CONFIRM: FIELD TRIP 	<ul style="list-style-type: none">
Week 12			
Tuesday	Nov. 3	<ul style="list-style-type: none"> Designer/Product/Project In-class: Water Design Project – Schematics Assignment: Water Design Project Design Development Dwgs. (02) 	<ul style="list-style-type: none"> DUE: Water Design Project – (01) Research + Schematics DUE BEGINNING OF CLASS
Thursday	Nov. 5	<ul style="list-style-type: none"> Designer/Product/Project Quick Quiz 6 – Extra Credit (1 point) Gallery Installation: Lighting 	<ul style="list-style-type: none"> DUE: Luminaire Project
Week 13			
Tuesday	Nov. 10	<ul style="list-style-type: none"> Designer/Product/Project Principles of Thermal Comfort HVAC: Heating, Ventilation + Air Conditioning Assignment: HVAC Project: Research + Schematics (01) 	<ul style="list-style-type: none"> DUE: Water Design Project – Design Development (02)
Thursday	Nov. 12	<ul style="list-style-type: none"> Designer/Product/Project CONFIRM GUEST SPEAKER: HVAC Donald Wilkes, Apalachee Air Assignment: HVAC Project – Design Development (02) 	<ul style="list-style-type: none"> DUE: HVAC Project: Schematics (01) READ: K + B Systems: Chapter 5 for class 11-19
Week 14			
Tuesday	Nov. 17	<ul style="list-style-type: none"> Designer/Product/Project Student Review: Water Design Project 	<ul style="list-style-type: none"> DUE: Water Design Project – (03) Final Design Drawings
Thursday	Nov. 19	<ul style="list-style-type: none"> Designer/Product/Project Indoor Air Quality Quick Quiz 7 – Extra Credit (1 point) In class: Review HVAC projects 	<ul style="list-style-type: none"> DUE: HVAC Project: Design Development (02)

Date:		Subject(s):	Required Reading(s) and/or Assignment(s) Due:
		<ul style="list-style-type: none"> Assignment: HVAC Project Design Documents 	
Week 15			
Tuesday	Nov. 24	<ul style="list-style-type: none"> THANKSGIVING 	
Thursday	Nov. 26	<ul style="list-style-type: none"> THANKSGIVING 	
Week 16			
Tuesday	Dec. 1	<ul style="list-style-type: none"> Designer/Product/Project Student Review: HVAC Project 	
Thursday	Dec. 3	<ul style="list-style-type: none"> Designer/Product/Project Health & Safety Issues: Sick Building Syndrome Quick Quiz 8 – Extra Credit (1 point) 	<ul style="list-style-type: none"> DUE: HVAC Project – (03) Design Documents Complete
Week 17			
Tuesday	Dec. 8	<ul style="list-style-type: none"> Designer/Product/Project Health & Safety Issues continued GUEST SPEAKER: Jorge Antiles – "Radon" Radon Mitigation Video 	PREPARE FOR FINAL EXAM
Tuesday	Dec. 10	<ul style="list-style-type: none"> Designer/Product/Project Review Exam 3 	PREPARE FOR FINAL EXAM
Week 18			
FRIDAY	DEC. 11	<ul style="list-style-type: none"> EXAM 3 – 8am – 11 am 	All course materials – lectures, reading, guest speaker and field trip information will be included in Exam 3