

# APPLICATION FOR NEW COURSE

<b>1. General Information.</b>				
a.	Submitted by the College of: <u>Design</u>	Today's Date: <u>08/16/2010</u>		
b.	Department/Division: <u>School of Interior Design</u>			
c.	Contact person name: <u>Dickson, Ann W</u>	Email: <u>hdsawd@uky.edu</u>	Phone: <u>7-7767</u>	
d.	Requested Effective Date: <input checked="" type="checkbox"/> Semester following approval	OR	<input type="checkbox"/> Specific Term/Year <sup>1</sup> : _____	
<b>2. Designation and Description of Proposed Course.</b>				
a.	Prefix and Number: <u>ID 364</u>			
b.	Full Title: <u>Interior Environmental Control Systems</u>			
c.	Transcript Title (if full title is more than 40 characters): _____			
d.	To be Cross-Listed <sup>2</sup> with (Prefix and Number): _____			
e.	Courses must be described by <u>at least one</u> of the meeting patterns below. Include number of actual contact hours <sup>3</sup> for each meeting pattern type.			
	<u>3</u> Lecture	_____ Laboratory <sup>1</sup>	_____ Recitation	_____ Discussion _____ Indep. Study
	_____ Clinical	_____ Colloquium	_____ Practicum	_____ Research _____ Residency
	_____ Seminar	_____ Studio	_____ Other – Please explain: _____	
f.	Identify a grading system:	<input checked="" type="checkbox"/> Letter (A, B, C, etc.)	<input type="checkbox"/> Pass/Fail	
g.	Number of credits: <u>3</u>			
h.	Is this course repeatable for additional credit?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
	If YES: Maximum number of credit hours: _____			
	If YES: Will this course allow multiple registrations during the same semester?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
i.	Course Description for Bulletin:	<u>An introduction and overview of electrical, lighting, mechanical, thermal and acoustical systems of buildings and how they enhance the health, safety, welfare, and performance of building occupants. Emphasis is on case study analysis and problem-solving related to the integration of building systems and interior environments. Subject matter includes code analysis and interpretation. Lectures, discussions, readings, research and field trips.</u>		
j.	Prerequisites, if any: <u>ID 275</u>			
k.	Will this course also be offered through Distance Learning?	YES <sup>4</sup> <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
l.	Supplementary teaching component, if any:	<input type="checkbox"/> Community-Based Experience	<input type="checkbox"/> Service Learning	<input type="checkbox"/> Both
3.	Will this course be taught off campus?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	

<sup>1</sup> Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

<sup>2</sup> The chair of the cross-listing department must sign off on the Signature Routing Log.

<sup>3</sup> In general, undergraduate courses are developed on the principle that one semester hour of credit represents one hour of classroom meeting per week for a semester, exclusive of any laboratory meeting. Laboratory meeting, generally, represents at least two hours per week for a semester for one credit hour. (from SR 5.2.1)

<sup>4</sup> You must *also* submit the Distance Learning Form in order for the proposed course to be considered for DL delivery.

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<b>4.</b>	<b>Frequency of Course Offering.</b>		
<b>a.</b>	Course will be offered (check all that apply):	<input checked="" type="checkbox"/> Fall	<input type="checkbox"/> Spring <input type="checkbox"/> Summer
<b>b.</b>	Will the course be offered every year?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
	If NO, explain: _____		
<b>5.</b>	<b>Are facilities and personnel necessary for the proposed new course available?</b>		
		YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
	If NO, explain: _____		
<b>6.</b>	What enrollment (per section per semester) may reasonably be expected?	<u>32</u>	
<b>7.</b>	<b>Anticipated Student Demand.</b>		
<b>a.</b>	Will this course serve students primarily within the degree program?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
<b>b.</b>	Will it be of interest to a significant number of students outside the degree pgm?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
	If YES, explain: _____		
<b>8.</b>	<b>Check the category most applicable to this course:</b>		
	<input checked="" type="checkbox"/> Traditional – Offered in Corresponding Departments at Universities Elsewhere		
	<input type="checkbox"/> Relatively New – Now Being Widely Established		
	<input type="checkbox"/> Not Yet Found in Many (or Any) Other Universities		
<b>9.</b>	<b>Course Relationship to Program(s).</b>		
<b>a.</b>	Is this course part of a proposed new program?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
	If YES, name the proposed new program: _____		
<b>b.</b>	Will this course be a new requirement <sup>5</sup> for ANY program?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
	If YES <sup>5</sup> , list affected programs: <u>Interior Design</u>		
<b>10.</b>	<b>Information to be Placed on Syllabus.</b>		
<b>a.</b>	Is the course 400G or 500?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
	If YES, the <i>differentiation for undergraduate and graduate students must be included</i> in the information required in <b>10.b</b> . You must include: (i) identification of additional assignments by the graduate students; and/or (ii) establishment of different grading criteria in the course for graduate students. (See <i>SR 3.1.4.</i> )		
<b>b.</b>	<input checked="" type="checkbox"/> The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from <b>10.a</b> above) are attached.		

<sup>5</sup> In order to change a program, a program change form must also be submitted.

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## Signature Routing Log

**General Information:**

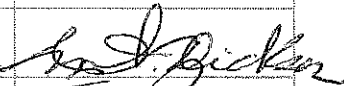
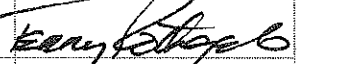
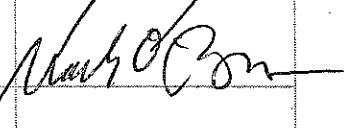
Course Prefix and Number: ID 364

Proposal Contact Person Name: Ann Dickson Phone: 7-7767 Email: hdsawd@uky.edu

**INSTRUCTIONS:**

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

**Internal College Approvals and Course Cross-listing Approvals:**

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
School of Interior Design	8/16/2010	Ann Dickson / 7-7767 / hdsawd@uky.edu	
CoD Curriculum Committee	8/26/2010	Terry Rothgeb / 77762 / hdstdr@uky.edu	
CoD Assembly Meeting	9/10/2010	Mark O'Bryan / 77617 / mark.obryan@uky.edu	
		/ /	
		/ /	

**External-to-College Approvals:**

Council	Date Approved	Signature	Approval of Revision <sup>6</sup>
Undergraduate Council	1/18/2011		
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

**Comments:**

<sup>6</sup> Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

**ID 364**

**Interior Environmental Control Systems**

3 cr. Hrs.

Meeting times: TR – 9:30-10:45 FB 216

Prereq: ID 275

**Instructor:**

Instructor: Joe Rey-Barreau

Office: 109 Funkhouser Building

Office hours: TR 1:00-2:00 MWF 11-Noon

Email: [hedjrb@uky.edu](mailto:hedjrb@uky.edu)

**Course Description**

An introduction and overview of electrical, lighting, mechanical, thermal and acoustical systems of buildings and how they enhance the health, safety, welfare, and performance of building occupants. Emphasis is on case study analysis and problem-solving related to the integration of building systems and interior environments. Subject matter includes code analysis and interpretation. Lectures, discussions, readings, research and field trips.

**Course Requirements**

Students will be required to attend all lectures and take six quizzes, three examinations, and complete three environmental design analysis and integration project.

**Student Learning Outcomes**

Upon satisfactory completion of this course, students will be able to:

- Demonstrate an understanding of the basic principles of natural and electrical lighting design. (CIDA 10b, 12a)
- Demonstrate an understanding of the principles of acoustical design and appropriate strategies for acoustical control. (CIDA 12c, d)
- Demonstrate an understanding of the principles of thermal design. (CIDA 12e, f)
- Demonstrate an understanding of how thermal systems impact interior design solutions. (CIDA 12e, f)
- Demonstrate an understanding of the principles of indoor air quality. (CIDA 12e, f)
- Demonstrate an understanding of how the selection and application of products and systems impact indoor air quality. (CIDA 12g, h)
- Demonstrate an understanding of how environmental control systems interact and are impacted by structural systems. (CIDA 13c)
- Demonstrate an understanding of how the principles of high performance buildings apply to environmental control systems. (CIDA 2a)

**COURSE SCHEDULE**

Week 1	Daylight and Electric Light Fundamentals
Week 2	Daylight and Electric Light Applications QUIZ 1
Week 3	Acoustics Fundamentals
Week 4	Acoustics Applications PROJECT 1
Week 5	EXAM 1 HVAC Fundamentals
Week 6	HVAC Applications
Week 7	HVAC Applications QUIZ 2
Week 8	Indoor Air Quality Fundamentals PROJECT 2
Week 9	Spring Break
Week 10	Indoor Air Quality Applications QUIZ 3
Week 11	EXAM 2

Week 12	Environmental Controls Integration PROJECT 3
Week 13	High-Performance Buildings QUIZ 1
Week 14	High-Performance Buildings
Week 15	Summary And Review
Week 16	PROJECT 3
	FINAL EXAM

## POLICIES

### Academic Integrity

All analysis and integration assignments shall include appropriate bibliographic citations for quoted text, paraphrased ideas or concepts, and graphic images where appropriate. Students are referred to the *Chicago Manual of Style* for standard bibliographic citation formats (UK Fine Arts Reference & Young Reference sections: Z253.U69 1993). A failure to cite quotations, paraphrases, or graphics will result in the student receiving no credit for the affected assignment. A second failure to provide appropriate citations will result in the student receiving a failing grade for the course. Assignments may require and rely upon the inclusion of images from outside sources. For this course, all assignment-required images shall be photocopied, or scanned and printed. The architecture library provides only black-and-white photocopy machines and will facilitate color photocopying of images. Under no circumstances are original images to be removed from books, periodicals, or resources within any library system. Unless the instructor can verify the source of an original image, an assignment submitted with original images will not be accepted. If a submitted assignment is found to contain original images from a library system source, the student will not receive any credit for the affected assignment. All suspicious images will be turned over the UK Library System for investigation and determination of relevant replacement fees.

### Accommodations

Appropriate accommodations will be made for students who have a documented need for alterations to course policy or expectations. Students seeking accommodation shall discuss the situation with the section instructor prior to the third course session. The instructor will require documentation from the Disability Resources Center or appropriate authority.

### Attendance

Students are required to be physically present during all sessions of the course. Unless otherwise indicated, students are expected to remain for the entire scheduled class session.

Attendance will be taken during each course session.

- Partial absence from a course session will be recorded as an absence or 'tardy' at the instructor's discretion. In general, a 'tardy' will be considered as the late arrival for any course session.
- Three tardy arrivals will be considered the same as one absence.
- Three unexcused absences will result in a one letter-grade reduction of the student's final grade (i.e.: An 'A' reduced to 'B'). **There will be two excused absences (with proper documentation) for the semester. With the third absence from studio or lecture, letter grade reductions will begin.**
- Per University Senate Rule 5.2.4.1, any student missing more than one-fifth (1/5) of the scheduled course sessions (excused and unexcused) will be asked to withdraw from the course. For this course, one-fifth of the scheduled course sessions shall be eleven (11) absences (44 studios + 13 lectures = 57 sessions x 1/5 = 11.4 sessions).

University Senate Rule 5.2.4.2 defines acceptable excused absences as:

- Serious illness (physician's note required);
- Illness or death of family member;
- University-related trips;
- Major religious holidays;
- Other circumstances [that the instructor] finds to be "reasonable cause for nonattendance."

Students who will be unable to attend class—for any reason—should contact the section instructor by email or phone message **prior** to the absence. Students will be responsible for providing written verification for any excused absences to the session instructor.

### **Policies Related to GRADING**

Throughout the term, grades will be assigned to completed course work.

Numeric scores on quizzes and exams will be recorded on a 100 percentage points. The analysis and integration project will be evaluated based on specific project criteria provided with the assignments and will be evaluated with a letter grade.

The grading scale is:

100 - 90	A
89 - 80	B
79 - 70	C
69 - 60	D
59 and below	E

Letter grades will be recorded as 'A,' 'B,' 'C,' 'D,' or 'E.' Letter grades may include 'plus' or 'minus' designations at the instructors' discretion.

Letter grades shall be understood to represent:

A – Assigned to work completed substantially above the final expectation for the studio level. Work represents **exceptional** integration of design issues in relation to the design problem. Work relies upon both consideration of relevant analysis and original design ideas to jointly support design decisions. (U.S.R. 5.1.1: “Represents an exceptionally high achievement as a result of aptitude, effort and intellectual initiative.”)

B – Assigned to work completed above the final expectation for the studio level. Work demonstrates **strong** integration of design issues in relation to the design problem. Work shows consideration of relevant analysis to support design decisions. (U.S.R. 5.1.1: “Represents a high achievement as a result of ability and effort.”)

C – Assigned to work completed at the **average** expectation for the studio level. Work represents **good** (or basic) integration of design issues. Work does not exhibit significant or strong solutions to design criteria or analysis. (U.S.R. 5.1.1: “Represents satisfactory achievement for undergraduates.”)

D – Assigned to work completed **below average** expectations for the studio level. Work demonstrates potential to improve at least one grade level in regards to integration of design issues. While one aspect of the work may be average, strong, or exceptional, the overall work does not illustrate a comprehensive understanding of design issues. Work may rely solely upon student talent or preferences without consideration of academic design issues. (U.S.R. 5.1.1: “Represents unsatisfactory achievement and is the minimum grade for which credit is given.”)

E – Assigned to work that fails to demonstrate understanding or recognition of design issues. Work does not exhibit the potential to improve to average expectations. (U.S.R. 5.1.1: “Represents unsatisfactory performance and indicates failure in the course.”)

For the purposes of final grade calculations, letter grades shall be translated as follows (out of ten points):

12 A+	9 B+	6 C+	3 D+	
11 A	8 B	5 C	2 D	
10 A-	7 B-	4 C-	1 D-	0 E

When calculating *final* grades the *sum total of the parts* with a fraction greater than .5 will be automatically rounded up to the higher letter grade and final grades will not reflect plus and minus.

Make-up exams will be given only at the discretion of the instructor. A make-up exam will not be given unless the student has made arrangements with the instructor **prior** to the date of the scheduled exam. Unless previous arrangements have been made with the section instructor, late assignments will not be accepted. Approved late assignments will receive the equivalent of a one-letter grade deduction per calendar day late. (On the numeric scale, a one-letter grade deduction will equal the corresponding point deduction.) Assignments submitted late, as the result of an excused absence, will not be penalized.

Per University Senate Rule 5.1.0.1, students will be informed of their current standing before the midterm withdrawal date. For Fall 2010, the last day to withdraw from a course without it appearing on the student's transcript is September 15 or by November 5 with an approved withdrawal.

**Final Grades:**

Final grades for this course will be determined using a composite of assignment grades including exams, quizzes, and analysis and integration projects and recorded course attendance. Final grade deductions based upon the attendance policy will be considered after preliminary final grades have been calculated. Specifically, the final grade calculations with weight assignment is:

- 60% 3-Exams.
- 10% 4-Quizzes
- 30% 3-Analysis and integration projects.

**Texts**

Binggeli, C. Second Edition. *Building Systems for Interior Designers*. New York: John Wiley & Sons, 2010.

**Supplementary Readings**

Suggested readings from the text and supplementary readings.