



**CM 1010 – Construction Graphics and Nomenclature**

- TERM** : Fall 2008
- CLASS TIME & LOCATION** : Section 1: MW 8:40am-10:30am, room 2228 Patrick Taylor Hall (Service-Learning) (CxC)  
Section 2: MW 10:40am-12:30pm, room 2228 Patrick Taylor Hall (Service-Learning) (CxC)  
Section 3: TTh 8:40am-10:30am, room 2228 Patrick Taylor Hall (CxC)  
Section 4: TTh 10:40am-12:30pm, room 2228 Patrick Taylor Hall (CxC)
- FACULTY** : Charles Pecquet  
2517-C Patrick Taylor Hall  
[cpecqu1@lsu.edu](mailto:cpecqu1@lsu.edu)  
(225)578-7790
- Service-Learning Partner** : Katie Paulson  
Habitat for Humanity, Baton Rouge  
<http://www.habitatbr.org/>
- OFFICE HOURS** : 1:00p-2:30p MTWTh, or by appointment
- WEBSITE** : Moodle will be used for this course.
- CATALOG COURSE DESCRIPTION** : Graphic communication concepts and techniques relating to construction processes and nomenclature.
- COURSE OBJECTIVES & OUTCOMES** : The goal of this course is to familiarize students with a basic residential structure, its terminology, and its graphical representation in a set of working drawings primarily through the production of a set of residential plans using graphic communication conventions and practices in a CAD environment.

Following successful completion of this course, all sections will:

1. Identify concepts and techniques of the graphic communication language.
2. Create drawings to communicate ideas using the graphic communication language.
3. Identify nomenclature of a typical residential structure.
4. Interpret working drawings of a typical residential structure.
5. Produce working drawings of a typical residential structure using CAD.

Sections 1 and 2 will also:

6. Demonstrate an understanding of social and economic issues related to home ownership and construction management through reflective essays, class discussions, and a class presentation.

<b>GRADE POLICY</b> (See Course Assessments)	<b>GRADE</b> :	Portfolios	30
		Projects	50
		<u>Exams</u>	<u>20</u>
		Total	100 points

<b>Grade Scale :</b>	<b>A</b>	90-100
	<b>B</b>	80-89
	<b>C</b>	70-79
	<b>D</b>	60-69
	<b>F</b>	0-59

- COURSE MATERIALS AND RESOURCES** : **Text Book:**  
Architectural Drawing and Light Construction, 7th ed by Muller, Grau, & Fausett  
ISBN: 0-13-143384-9 regular edition OR ISBN: 0-13-236174-4 edition w/ AutoCAD 2008
- Other:**  
USB drive, Architect's scale, Engineer's scale, 1/4" graph paper, pencil, calculator.

## Communication Intensive Course

CM1010 emphasizes visual and technical communication techniques. CM1010 is offered as a "Communication-Intensive (C-I) Course" and will be identified as such on your transcript if you meet all of the requirements for this course. It will also count toward the "High-Level Communicator" certification on your transcript if you apply for and meet the requirements for that recognition. For more information about C-I courses and the certification, see <http://cxc.lsu.edu>.

## Service-Learning

CM1010 sections 1 and 2 are designated Service-Learning courses. Service-Learning is defined as: ...a course-based, credit-bearing educational experience in which students (a) participate in an organized service activity that meets identified community needs and (b) reflect on the service activity in such a way as to gain further understanding of course content, a broader appreciation of the discipline, and an enhanced sense of civic responsibility (from Bringle & Hatcher, 1995). See LSU's CCELL site for more information about service-learning.

## University/Department/Course Policies:

1. No eating, drinking, tobacco products, gum, magazines, or newspapers are allowed in CM classrooms.
2. Turn cell phones off, or place on the silent mode.
3. Attendance and participation are required. It is the student's responsibility to contact the instructor concerning absences, obtain lecture notes and assignments, and otherwise compensate for whatever may have been missed. Excused absences will be handled according to the requirements of University Policy Statement 22. Otherwise, there are no make-up tests or class assignments.
4. Academic dishonesty will be dealt with according to university regulations and policy. It is each student's responsibility to understand these regulations. Students may help one another on assignments. However, copying a file from someone else, turning in someone else's work as your own, or allowing your work to be copied by someone else is considered cheating.

## Classroom Civility

Students are expected to assist in maintaining a classroom environment that is conducive to learning. To create an environment in which learning is the primary objective, students are asked to refrain from disruptive behaviors, tardiness, leaving early, sleeping, prolonged visiting with other students, and making inappropriate or offensive remarks. This is not a comprehensive list – in general, treat others with respect.

## Office of Disability Services

If you have a disability that may have some impact on your work in this class and for which you may require accommodations, please see a staff member in the Office of Disability Services (112 Johnston Hall) so that such accommodations can be considered. Students that receive accommodation letters, please meet with the instructor to discuss the provisions of those accommodations as soon as possible.

## Class Contacts:

You will be assigned to a group for one of the class projects. Record the names, phone numbers, and email addresses of your group members. These members of the class are also valuable resources for notes, assignments, announcements, etc. that are needed in the case of an absence from class.

Group\_\_\_\_\_

Student Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

Student Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_



## **Course Assessments:**

### **Portfolios 1 and 2: 15 points each**

The purpose of these assignments is to demonstrate the student's basic comprehension of the information covered during the semester. Board and CAD drawings will be assigned in class. As each individual assignment is completed, it is to be entered into the appropriate portfolio. Each portfolio will be collected and graded according to criteria discussed in class.

### **Exams 1 and 2: 10 points each**

A mid-term and final exam will be given during the semester covering concepts learned in class.

### **Projects 1 and 2: 15 points each**

Students will produce two sets of working drawings of residential structures. The design of the structures will be provided. It is intended that these projects will span several class periods and require outside lab work. Projects will be graded according to criteria provided and discussed in class. The projects will typically include a floor plan, elevations, electrical and HVAC plan, foundation plan, roof plan, plot plan, wall sections, and cabinet details.

### **Project 3: 20 points**

#### Sections 1 and 2: Service-Learning

Project three is a group project. Each student will be responsible for providing at least 10 hours of service with Habitat for Humanity at one of their Baton Rouge builds. These sites are located within a close commute from the campus. Four hours will be completed during two class periods. Students will be required to arrange their own transportation on those days to meet at the site. It is up to each student to schedule the remaining six hours outside of class time. These can be completed on one Saturday build or spread out throughout the semester. Each group will be responsible for producing and making a presentation of their experiences to the class at the end of the semester.

The project and presentation will include:

- a finished drawing of the floor plan, front elevation, and schedules of the structure on which they worked
- a brief PowerPoint of the process of collecting the information required to produce the drawing
- an individual log book of the time spent on the job site
- an individual 1-2 page essay reflecting on the overall experience

#### Sections 3 and 4

Project three is a group project. Each group will produce a preliminary drawing consisting of a floor plan, front elevation, and a door, window, finish, and square foot schedule of a residential structure of their own design. The design is for the residence of one to four college students. The design should be trying to minimize the monthly housing cost for residents. Each group will be responsible for producing and making a presentation of their experiences to the class at the end of the semester.

The project and presentation will include:

- a finished drawing of the floor plan, front elevation, and schedules of the structure they designed
- a brief PowerPoint of the process of collecting the information required to produce the drawing
- an individual log book of the time spent designing the plan
- an individual 1-2 page essay reflecting on the overall experience

**Total – 100 points**



**CM 1010 Course Schedule**

Readings and assignments are due on the class period indicated.  
 This schedule is subject to change with notification by instructor.

Wk	Date MW	Date TT	Topics	Readings:	Assignments Due: Sections 1 and 2	Assignments Due: Sections 3 and 4
1	8/25	8/26	Course introduction	Syllabus	-	-
1	8/27	8/28	CAD basics	Chp 1	-	-
2	<b>9/1</b>	9/2	<b>Labor Day Holiday</b>	-	-	-
2	9/3	9/4	Residential planning	Chp 2	P1.1	P1.1
3	9/8	9/9	Floor plan walls	Chp 15	P1.2	P1.2
3	9/10	9/11	Floor plan symbols	Chp 18	P1.3	P1.3
4	9/15	9/16	Floor plan notes	Chp 8	P1.4	P1.4
4	9/17	9/18	Floor plan dimensions	Chp 6	P1.5	P1.5
5	9/22	9/23	Wall sections	-	P1.6	P1.6
5	9/24	9/25	Elevations	-	P1.7	P1.7
6	9/29	9/30	Roof and Plot plans	-	P1.8	P1.8
6	10/1	10/2	Foundation plans	-	P1.9	P1.9
7	10/6	10/7	Electrical/HVAC plans	-	Portfolio 1	Portfolio 1
7	<b>10/8</b>	<b>10/9</b>	<b>Fall Holiday</b>	-	-	-
8	10/13	10/14	Project 1 print set up	-	Project 1	Project 1
8	10/15	10/16	Midterm Exam	-	Midterm Exam	Midterm Exam
9	10/20	10/21	Residential planning	Chp 7	Service-Learning Build	P2.1
9	10/22	10/23	Floor plan walls	-	P2.1-2	P2.2
10	10/27	10/28	Floor plan symbols	-	P2.3	P2.3
10	10/29	10/30	Floor plan notes	-	Service-Learning Build	P2.4
11	11/3	11/4	Floor plan dimensions	-	P2.4-5	P2.5
11	11/5	11/6	Wall sections	Chp 12	P2.6	P2.6
12	11/10	11/11	Elevations	-	P2.7	P2.7
12	11/12	11/13	Roof and Plot plans	-	P2.8	P2.8
13	11/17	11/18	Foundation plans	Chp 17	P2.9	P2.9
13	11/19	11/20	Electrical/HVAC plans	Chp 19	Portfolio 2	Portfolio 2
14	11/24	11/25	Project 2 print set up	-	Project 2	Project 2
14	11/26	<b>11/27</b>	<b>Thanksgiving Holiday</b>	-	-	-
15	12/1	12/2	Project 3 presentation	-	Project 3 groups 1-4	Project 3 groups 1-4
15	12/3	12/4	Project 3 presentation	-	Project 3 groups 5-8	Project 3 groups 5-8
<b>Final Exams</b>			Section 1: Friday, December 12, 12:30pm-2:30pm, room 2228 Patrick Taylor Hall Section 2: Thursday, December 11, 10:00am-12:00pm, room 2228 Patrick Taylor Hall Section 3: Wednesday, December 10, 12:30pm-2:30pm, room 2228 Patrick Taylor Hall Section 4: Tuesday, December 9, 12:30pm-2:30pm, room 2228 Patrick Taylor Hall			