

Course Syllabus – CNST 1330

Graphics I

Course Description:

This course introduces students to graphical communications and visualization of constructed facilities. The course offers a basic understanding of blueprint reading and the necessary skills to manipulate CAD electronic files.

Course Prerequisites:

None

Textbook:

Print Reading for Construction, 7th/E By: **Walter C. Brown and Daniel P. Dorfmueller** ISBN: 978-1-63126-922-6

Publisher: Goodheart-Willcox Copyright: 2019.

This book is a combination of Textbook and Workbook (Write-in-Text with 140 large prints), make sure to buy **NEW** copies only.

Recommended References & Other Readings:

- Technical Drawing by Frederick E. Giesecke, Last Edition Published by Prentice Hall, Pearson Education Inc.
- Engineering Graphics with AutoCAD 2020, by James D. Bethune, Last Edition by Prentice Hall.
- AutoCAD and Its Applications COMPREHENSIVE by Shumaker & Madsen, Latest Edition by Goodheart Wilcox.

Supplies Needed:

In addition to the printed material, the following supplies are needed:

- **AutoCAD software from <http://students.autodesk.com> (*student version only*)**
- Mechanical Pencil (0.5 mm, 0.7 mm or 0.9 mm). Good quality Eraser and white paper
- Highlighters in different colors and erasable colored pencils
- Triangular scale rulers: Metric Scale, Architect's Scale, and Engineer's Scale
- A removable storage media, such as USB flash memory drives.

Course Learning Outcomes:

Upon completion of this course, the student should be able to:

1. Understand and be able to use scales and convert dimensions
2. Be able to dimension an area drawing
3. Identify construction blueprint symbols and abbreviations
4. Correlate elevations, sections, plan views, schedules and general notes
5. Understand the different drawing types and their usage
6. Distinguish print components - framing plans, roofing plans
7. Utilize construction math as it pertains to prints
8. Understand the anatomy of residential and commercial structures

9. Understand how various building codes apply to residential/commercial structures
10. Interpret a set of construction contract documents
11. Understand symbols, notation, abbreviations and material schedules
12. Be able to work with the CAD drawings to obtain information on dimension, finishes, details, area calculations, etc.
13. Apply this knowledge as it pertains to project management.

Student Learning Outcomes:

10. Apply electronic-based technology to manage the construction Process.

Course and Student Learning Outcome Mapping:

Student Learning Outcome	Course Learning Outcomes
10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

Student Learning Assessment and Assessment Target:

Assessment	SLO#10	Assessment Target
Assess (A)	X	At least 70% of students receive a grade of 70 or better

Class Grading:

The percentage of the total grade determined by each part of the class assessment sequence:

- Quizzes 25%
- Assignments 20%
- Middle Term Exam 15%
- Attendance/Participation 15%
- Exercises/Test in class 10%
- Class Project/Final Presentation 15%

Visit Blackboard Learn for details about each assignment listed below. Points you receive for graded activities will be posted in the Blackboard Learn Grade Book. Click on the Grades link on the left navigation bar to view your points. ***All assignments, homework, quizzes, and projects need to submit by Blackboard ONLY.***

Grading Scale:

Final grades assigned for this course will be based on the percentage of total points earned and are attributed as follows:

Letter Grade	Percentage	Performance
A	93-100%	Excellent Work
A-	90-92%	Nearly Excellent Work
B+	87-89%	Very Good Work
B	83-86%	Good Work

B-	80-82%	Mostly Good Work
C+	77-79%	Above Average Work
C	73-76%	Average Work
C-	70-72%	Mostly Average Work
D+	67-69%	Below Average Work
D	60-66%	Poor Work
F	0-59%	Failing Work

Schedule of Topics:

The schedule for this class includes a topic outline/schedule that is not in this syllabus, in a separate link to a calendar document “*Class Schedule*” in your Blackboard Learn course in Syllabus & Schedule. For Quizzes and assignments, we are using the Blackboard Learn calendar tool. We can add and keep our calendar up-to-date to help students follow along, reduce confusion, and emphasize time on task.

Exam Policy:

There will be two exams/projects as part of the grading of this class. Reviews will include material from the lectures as well as content from the workbook. Students are responsible for all the material in the workbook, whether or not it is discussed in class. **No make-up exams will be given under any circumstances!**

This class follows all UH grade regulations, policies, and standards as stated in the student handbook. Review the catalog for conditions under which an incomplete may be granted.

<http://www.uh.edu/dos/studenthandbook/> and <http://catalog.uh.edu/content.php?catoid=6&navoid=1077>

Participation/Attendance:

Students are responsible for knowing and adhering to all university and college dates and deadlines. Such times and deadlines include those for enrollment (registration), adding and dropping of courses, academic holidays, payment and refunds, and applying for graduation. Visit the following helpful websites for specific dates: <http://www.uh.edu/academics/catalog/academic-calendar/> and <http://www.uh.edu/emergency>.

Late Work Policy:

Be sure to pay close attention to deadlines—there will be no make-up assignments or quizzes, or late work accepted without a serious and compelling reason and instructor approval.

Assignments are expected to be turned into Blackboard only by the assigned due date. **Technology failures will not be accepted as a reason for missed assignment due dates. Therefore, do not leave anything to the last minute.** Back up files frequently and in various locations, so work is not lost. It is the student’s responsibility to identify alternative ways to complete or submit an assignment. For example, if the Blackboard Learn system is offline, consider e-mailing the assignment before the due date. Still, you need to discuss this situation with your instructor and submit your assignment again.

Students are required to follow all UH deadlines: <http://www.uh.edu/academics/catalog/academic-calendar/>

Class Assistance:

Students are encouraged to start assignments early to help reduce last-minute technical issues. All technical error reports must include screenshot proof attached to an e-mail message.

PC/Windows tutorial: <http://www.wikihow.com/Take-a-Screenshot-in-Microsoft-Windows>

MAC/Apple tutorial: <http://www.wikihow.com/Take-a-Screenshot-in-Mac-OS-X>.

Support Services:

Student assistance for Blackboard can be found by visiting <http://www.uh.edu/blackboard/help/>, calling 713-743-1411, or e-mailing support@uh.edu. Software or hardware can be purchased at the UH Bookstore or UH Cougar Byte Discount website (<http://www.cougarbyte.com/>). Additional UH computer labs are available all over campus. Learn more by visiting <http://www.uh.edu/infotech/services/facilities-equipment/comp-labs/>

Technology Requirements:

This course uses a learning management system called Blackboard to post assignment details, announcements, and provide collaborative opportunities. The best view for this course is through the use of a full desktop or laptop computer. The use of mobile devices may prevent course materials not to display or work properly. Below are the minimum technology requirements to be successful in this course:

- Supported operating system (e.g., Windows/PC or Apple/MAC computer)
- USB Flash Drive (at least 1 GIG)
- Stable internet connection (Ethernet connection preferred over wireless)
- Cougar Net Login credentials <http://accessuh.uh.edu>
- E-mail account (UH alias or personal)
- Microsoft Office 2007 or later
- Adobe PDF Reader <http://get.adobe.com/reader/>
- Two supported internet browsers (e.g., Mozilla Firefox, Google Chrome)
- Pop-up blockers disabled for trusted sites (e.g., UH, Blackboard)
- Cookies enabled for trusted sites (e.g., UH, Blackboard)
- Java plug-in <http://www.java.com/en/download/installed.jsp>

Technology Competencies/Skills:

Students enrolled in the course must be prepared to perform the basic tasks below.

1. Send and receive e-mail;
2. Attach files to an e-mail message;
3. Locate system information (e.g., browser version, operating system, etc.) for troubleshooting;
4. Recognize, use, and create hyperlinks;
5. Use of basic Microsoft Office programs;
6. Download and install the software (including utilities, plug-ins, and/or apps);
7. Copy and paste text using a computer;
8. Scan and remove computer viruses;
9. Plug-in external devices to a computer;
10. Save files to an external device (e.g., flash drive, CD, or DVD);

11. Use an internet search engine to locate credible online resources;
12. Post and reply to discussion forums or chat via instant messaging tool;
13. Send a computer screenshot for technical assistance.

Class Attendance:

All class sessions, as listed on the class calendar, are expected to attend for students and to be on time for every class period. Students can drop from a class due to excessive absences. Excessive delays may be considered absences. Students are responsible for subjects, assignments, and projects covered during their absences. Consult the *Student Handbook* for more details

Cell Phones, iPhones, iPads and Electronic Devices:

All cell phones must be muted, set to vibrate, or turned off during class. Electronic device activity during class is deemed disruptive to the educational process and will not be tolerated. If you need to make or receive an emergency call, please leave the classroom.

Participation:

Instructors monitor, track, and/or score student participation and keep track and how often students should be accessing the course. For this course, the instructor will be using Blackboard Learn tracking tool, discussions, chat sessions, and group work, to monitor student's participation in the course.

Assignments:

All assignments for this class will be submitted electronically through Blackboard Learn unless otherwise instructed. The given deadline must submit assignments or must request special permission from the instructor *before the due date*. Extensions will not give beyond the next assignment except under extreme circumstances.

All discussion assignments must be completed by the assignment due date and time. Late or missing discussion assignments will affect the student's grade.

Understand When You May Drop This Class:

You are responsible for making arrangements to drop the class if you wish to do so. If you wish to drop the class, complete the online process at my.uh.edu before the deadline. Your instructor cannot drop you for any reason. Pay attention to the deadline and check your class enrollment status on My UH in <https://accessuh.uh.edu/> to make sure your drop has been processed.

Needed Accommodations:

The College of Technology would like to help students who have disabilities achieve their highest potential. In accordance with 504/ADA guidelines, reasonable academic accommodations will be provided to students who request and require them. Students must register with the Center for Students with Disabilities (CSD) 713-743-5400, and present approved accommodation documentation to their instructors as soon as possible but no later than the second week of the semester.

Academic Dishonesty Policy:

The College of Technology faculty take cheating, plagiarism or any violation of the UH Student Code of Conduct seriously and expect all students to be familiar with the expectations and consequences set out in the Code (<http://www.uh.edu/academics/catalog/policies/academ-reg/academic-honesty/index.php>.)

Any violation will result in an investigation based on the conditions and steps outlined in the Code of Conduct. Please refer to the examples of plagiarism, the consequences for violations noted in the Code of Conduct, and/or consult your professor if you have specific questions. Please also note that plagiarism also includes reusing your own work submitted for another class. Notification to all concerned parties will be made immediately. <http://catalog.uh.edu/content.php?catoid=6&navoid=1025>

Online Student Etiquette:

This course may host synchronous online meetings. During those meetings consider the following:

- **Keep chats on topic.** Avoid inappropriate conversations that may distract others from the course topic or objective.
- **Avoid strong/loud language.** Be polite. Language can easily be misinterpreted in written communication. Before sending an e-mail or chat message make sure it clearly conveys the intended feeling.
- **Use emoticons to express feelings.** Nonverbal cues can reinforce the feeling of a message. Use sparingly. :-)
- **Respect privacy of peers.** Do not post someone's personal information online without their expressed permission.
- **Use appropriate dress code on camera.** During a video conference dress as if attending a face-to-face class. Avoid offensive clothing.
- **Be mindful of background noise and scene/location.** Take advantage of quiet areas to avoid distractions to fellow classmates. Avoid offensive décor or noise.
- **Be helpful.** Assist fellow classmates in understanding course materials.