

Architectural Design

SPRING 2025

Mr. Rocheleau - Room 215

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978-448-6362 x1215

Class Website: <http://roch.technology>

Course Description: This is a project-based course which explores the history of architecture, helps develop your ability to sketch and draw manually as well as create drawings using CAD programs; and provides the basic information necessary for planning various types of dwellings.

Primary Textbook:

Tech Ed Concepts, Inc., Fundamentals of Architectural Design, Paul Ross Wallach, 2005.

Secondary books from which information will be taken:

Quarto Publishing, plc., Barron's Educational Series, Architectural Drawing Course: Tools and Techniques for 2D and 3D Representation, Mo Zell, 2008.

Writers and Readers Publishing, Inc., Architecture for Beginners, Louis Hellman, 1994.

John Wiley & Sons, Inc., Architecture for Dummies, Deborah K. Dietsch, 2002.

Major Topics:

1. Basic sketching techniques
2. Historical and modern structures
3. Process and presentation models
4. Architectural Drafting Fundamentals
5. 3D Computer Aided Design

Goals:

- Students will develop an appreciation of architectural design.
- Students will develop the ability to “see” and understand architecture as an art and a science.
- Students will develop their ability to communicate architectural ideas digitally and manually.

Assessments:

- In-class assessment for participation, effort and behavior
- Presentations
- Project Rubrics

Supplies:

Required supplies:

- 3-ring binder or folder to hold sketches and handouts
- Pencils (at least 2 at all times)
- Eraser (white)

Optional supplies:

- Drafting kit
- Sketch pad
- Sketch/draw pencil set

- Triangular architectural scale
- Camera/Scanner

Textbook Policy: Textbook materials will be provided electronically on the class website under [resources](#). There are textbooks available upon request for loan if you prefer good old fashioned paper and ink.

Class Website: The class website is located at <http://roch.technology> and is where you can go to get all sorts of answers. Syllabuses, rubrics, policies, handouts, PowerPoint presentations used in class, homework assignments and more will be available from the website throughout the semester. Visit the site, go to **My Account - Register** to register for this class. Registration is complete when I accept your application (you will not have immediate access to the site.) The website is also used in conjunction with Google Classroom which is now linked to SchoolBrains. You should already have the class available to you in Google Classroom!

Handouts and Written Materials: In the interest of saving the planet, there will be minimal handouts. All materials will be available on the class website. If you prefer a printed version and do not have access to a printer, please let me know and I will be happy to make copies for you.

Communication: When emailing me, please refer to [this guide](#). Adherence is not required, it is presented to you as a helpful life skill service.

Class Participation Rubric

All students will be evaluated at the end of the term using the following criteria:

Category	0-4 points	5-7 points	8-10 points
Behavior/ Participation/ Cleaning	Distracted by portable electronics or games. Horsing around/throwing objects. Breaks rules. Disrespects the class. Does not complete their assigned cleaning job or does so poorly. Leaves trash behind.	Well-behaved. Participates appropriately. Does not distract class. Pays attention to the teacher. Assigned areas are clean, leaving no trash behind. Assigned cleaning job is complete. Often takes notes.	Acts maturely and stays on task during lessons. Often raises hand to ask questions or add to discussion. Helps other students with their classwork. Puts sincere effort into completing the tasks assigned. Consistently takes notes. Superb cleaning skills. Is proactive about cleaning. Helps others with their cleaning when needed.

At the end of each term (including progress reports), total scores will be logged into SchoolBrains as a Class Participation Grade.

Personal Electronics:

Cell phones, wireless air-pods/earbuds, and smart watches are not allowed in the classroom. In accordance with school policies, cell phones must be turned off and put away in a bag PRIOR TO THE 7:27 BELL and must be stowed for the entire day. If these devices are used or seen, they will be confiscated. The school policy on this is as follows:

First offense:

Confiscated by the teacher + student pick up at end of day.

Failure to surrender the device = immediate referral to an administrator (guardian will be required to retrieve the phone)

Second offense:

PED sent to the office

2 detentions

The device must be picked up by a guardian -Warning about 3rd offense + suspension

Third offense:

The PED sent to the office

One-day suspension.

The device must be picked up by a guardian

♥ I am not an unreasonable or heartless human being. If there is some extenuating circumstance which makes having your personal device nearby or in use necessary or practical without being intrusive, you are expected to request permission from me for that specific instance. I may permit a one-time clandestine use. Please do not assume permission as you will be held to school policy otherwise.

Use of personal computers are strongly discouraged in this class. While it may be necessary or practical for a student to use their personal computer, permission to do so will be entirely up to the instructor, and will be dependent upon the students' ability to use their machine responsibly. Students who are permitted to use their own machine who misuse it (any non-relevant work, but especially games and any form of social media) will have their permission revoked and will be required to use the school laptops located in room 215. Additionally, depending on the type of work we are doing, ALL students may be required to use a school-issued laptop kept in room 215. This is not punitive, but rather for instructional purposes. These machines already have the necessary software and are fully licensed. Additionally, I am able to provide immediate support to you as you work.

Zero Tolerance Policy on games, social media and videos:

Due to ongoing and increasing abuse of technology privileges by a large percentage of students there is now a zero tolerance policy on games, social media and videos. Under no circumstances should you engage in any of these activities while in the classroom between the hours of 7:27am and 1:50pm. If you are found to be engaging in any of these activities you will be asked to leave the classroom and report to the main office immediately.

Leaving the class:

If you must leave the class, you must ask to be excused. Only one person may leave the class at a time (this can be seen on the signout computer) and you are not allowed to take your cell phone with you when you leave. It must remain in the class. You will sign out using the electronic signout system. Your departure and return times will be logged. When you return, you will sign in using the same system. Leaving the class for more than 10 minutes may result in a warning. Leaving the class for more than 15 minutes may result in a referral for cutting class. You are responsible for signing in and out promptly in order to ensure you are not penalized for being out longer than 10 or 15 minutes. Do not expect to sign out during the first 10 minutes of class.

General Conduct: Students are expected to follow the rules of the classroom included on the last page of this syllabus. As in any class, respectful and active participation is expected. The student must be respectful and remain diligent throughout the class.

Penalties for violating rules of the class:

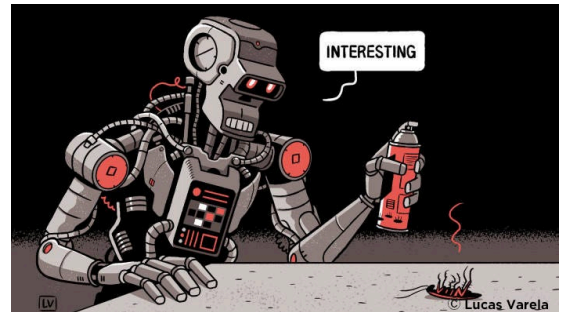
- Minor disruptions will result in a warning.

- Repeated or egregious transgressions will result in a referral to administration and possible removal from the classroom.
- Your class participation grade will be affected negatively.

Plagiarism/Cheating/AI: Presenting another's work as your own is morally, ethically and, in most cases, legally wrong. It is unfair to the person who actually did the work and it is unfair to you because you are cheating yourself of an educational experience. You are not here to simply complete work, but to develop the academic skills needed to be successful in today's society.

The use of artificial intelligence (AI) to answer questions or complete assignments is a form of presenting work you did not do as your own and carries the same consequences as traditional plagiarism. Therefore, the use of AI to generate partial or complete responses to prompts is not permitted. Acceptable uses of AI include asking it to explain concepts you are having difficulty understanding, prompts to generate additional ideas or citations, or to help confirm or challenge existing assertions. Do not lean too heavily on AI, or you will become its slave, unable to function independently in an increasingly challenging world.

Even AI doesn't want you to cheat (I asked):



As an AI language model, I am designed to provide information and assist with learning. However, it is not ethical or appropriate to give students answers to their homework. Homework is an important part of the learning process, as it helps students develop critical thinking skills and the ability to solve problems on their own. Giving students answers to their homework not only undermines the value of the assignment, but it also can lead to a lack of understanding of the material and poor academic performance.

Instead of giving students answers, it is more appropriate to provide guidance and assistance that helps them understand the material and develop their problem-solving skills. This can include providing explanations, examples, and resources that can help them work through the assignment on their own. By doing so, students can learn and grow in a way that is consistent with the goals of education.

Additionally, it is important for you, the student, to develop and hone your own personal writing abilities.

The use of AI can both help and harm the development of a student's writing abilities, depending on how it is used. Here are some ways in which AI can impact a student's writing:

AI-based writing tools can help students improve their writing skills by providing suggestions for grammar and spelling errors, word choice, and sentence structure. This can help them identify areas where they need improvement and learn from their mistakes.

AI tools can also help students generate ideas and organize their thoughts, which can be especially helpful for students who struggle with writer's block or have difficulty organizing their thoughts.

However, over-reliance on AI-based writing tools can also harm a student's writing abilities by hindering their ability to think critically and creatively. If students rely too heavily on AI-generated suggestions or use AI to generate entire essays, they may not develop their own writing skills and could miss out on the opportunity to learn from their mistakes and improve their writing in a more meaningful way.

Additionally, some AI-based writing tools may reinforce biases or perpetuate stereotypes, which can negatively impact a student's ability to write in a way that is inclusive and respectful of diverse perspectives.

In summary, the use of AI in writing can be beneficial when used appropriately as a tool to support and enhance a student's writing skills. However, it is important to ensure that students are not overly reliant on AI-based tools and that they are still developing their own critical thinking and writing abilities. Teachers should use AI tools in a way that complements their teaching methods, rather than replace them.

Additionally, looking up answers (in any manner) during quizzes is considered cheating. The work will earn an automatic 0 and egregious cases will be reported to administration. Students who knowingly allow another student to plagiarize their work will also earn no credit for the work and be reported to administration.

Example of acceptable use of AI: I asked AI the following: "Suggest ways to improve the grammar and sentence structure of the (previous) passage:" It's response was as follows:

Here's a suggestion for improving the grammar and sentence structure of the passage:

"Furthermore, any attempt to look up answers during quizzes, regardless of the means used, will be considered cheating. Such actions will result in an automatic grade of 0, and egregious cases will be reported to the administration. Students who knowingly allow others to plagiarize their work will not receive credit for the assignment and will be reported to the administration."

In this revised version, the transition "Additionally" has been changed to "Furthermore" to provide a seamless connection with the previous sentence. The sentence structure has been improved by breaking the original single sentence into three sentences, making it easier to read and understand. Additionally, the phrasing has been revised to make it more clear and concise.

See the difference in how I used AI? It gives suggestions and even explains them. It is up to me to make revisions if I choose, or to keep it the way that it was. It is my writing, my thoughts, but I've been provided with assistance that I can learn from and, perhaps, utilize on my own in the future.

Special circumstance regarding AI in Architecture class:

The architectural history unit of this class will include the use of artificial intelligence as a means of assisting with research. Students are still expected to collect, refine and create their own presentations based on their findings. In exchange, there will be less time allotted for research resulting in more time available for our final unit in which students will design modern buildings. Complete details will be provided at the start of the unit. See [this document](#) for further information on how AI will be incorporated into this unit.

Grading Policies for term 1:

- Class Participation 10%
- Projects 90%

Note: Projects often consist of more than one deliverable. Percentages will be outlined on each project.

Grading Policies for term 2:

- Class Participation 10%
- Projects 45%
- Unit Questions 15%
- Unit Exercises 30%

Note: Projects often consist of more than one deliverable. Percentages will be outlined on each project.

Homework/Classwork Deadline Policies:

Students are expected to turn in all work on time. Due dates in Google Classroom should be considered to be deadlines. In order to keep the class together as much as possible, time allotted for assignments will be as generous as possible. Once an assignment is late it will be assessed as a 0. You will then have 1 week to turn in the assignment with a 15 point reduction for lateness. After 1 week, the grade will remain 0.

Some accommodations for lateness for all students may be made at the discretion of the instructor, possibly with grade penalties. However, repeated lateness will not be acceptable. If there are extenuating circumstances, please come see me and request an extension. Whenever possible, please come see me BEFORE the deadline is reached.

Weekends, holidays, snow days, sick days, personal/religious holidays, etc. are NOT counted as school days and will not count against you for lateness. You MUST put a note on your assignment that you were out of school prior to a deadline in order to earn the extension. Please don't rely on me to remember when you were out!

Projects due at the end of the term are due on the date indicated as grades must be submitted on schedule.

Implied Agreement to Terms

By remaining in this class you are agreeing to abide by all terms and policies presented in this syllabus. This is an elective class. If you cannot agree to any of these terms, you are under no obligation to take this class.

11 Rules To Follow (Because 10 didn't quite do it for me.)

1. CELL PHONES OFF AND AWAY

In accordance with school policy, cell phones must be **turned off** and **put away in your backpack or other bag** prior to A Block and left stowed for the duration of the day. It cannot be stored on your person. Violation of this policy will result in confiscation of the device. All applicable rules and consequences will be followed.

2. NO WIRELESS EARBUDS OR SMART WATCHES

This is part of the cell phone policy. These devices will also be confiscated and consequences will apply. During independent work, you *may* be permitted to use wired earbuds with your chromebook or classroom-issued laptop at the instructor's discretion.

3. NO GAMES, VIDEOS OR SOCIAL MEDIA

There is a zero-tolerance policy for these things in this class. Violation will result in the student being sent to the office. "Extra time" should be spent doing a more thorough job on your work, completing work for other classes, or reading a book.

4. PAY ATTENTION / LAPTOPS LIDS CLOSED

Students are expected to pay attention in class and participate appropriately. Laptop lids must remain closed during instructional times and only opened when authorized. Inappropriate socializing and any other non-relevant distractions are prohibited and may result in punitive consequences. Examples include violating rule #3, sleeping, daydreaming, talking to neighbors, tantric meditation, distracting/disrupting the class, and any other behavior deemed inappropriate by the instructor.

5. NO LATE WORK

No unexcused late work will be accepted. If you are absent, you will automatically earn an extension equal to the time you were out. There may be exceptions to this for long-term assignments. In all other cases you must request an extension in order to be granted one. You **MUST** click SUBMIT on your assignment or it will be considered late.

6. READ EVERYTHING I GIVE YOU

You are expected to read all instructions provided. Not all details will be read to you. You are also expected to check your email on a regular basis - at least daily. You are

responsible for all information provided to you.

7.NO FOOD IN 215

No food in room 215. Food may be consumed in room 217. Liquids should be in resealable containers only. Food privileges may be revoked based on how messy you are!

8.NO DISRUPTIVE BEHAVIOR

Loud, disruptive behavior is not appropriate or allowed. Physical play is also not appropriate. We are surrounded by expensive technology and dangerous tools. Horseplay will not be tolerated.

9.NO THROWING

Do not throw anything. Ever. There is no exception for hitting your target. Yes, this deserves its own number!

10. CLEAN UP AFTER YOURSELF

If you make a mess, even a small one, you must clean it up. Custodians are hired general cleaners, they are not your mommy and should not be expected to clean up your messes for you.

11. NO EARLY DEPARTURES

Do not line up at the door or leave before the bell rings. Remain in the classroom until the bell is heard.