

Ben Barber Innovation Academy
Principles of Architecture

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A Syllabus for: Principles of Architecture

Prerequisite: Geometry
Conference Block: 10:00-10:50

Placement: 10-12
Classroom: B-225

Principles of Architecture is an **Activity Project Based** course designed to provide an opportunity for research and developmental activities as an introduction to an advanced study course in AutoCad/Revit with the usage of hand drafting tools and equipment. This course of study is a 18 week course. The student will apply architectural techniques to develop a variety of architectural drawings and plans. Each student will investigate materials, careers, applications, codes, standards, and regulations related to architectural graphics technology, not limited to the Occupational Safety and Health Administration, National Electronic Codes, American Society for Testing Materials, symbols, and lines.

Instruction is given using the latest version of AutoCad/Revit software and the most recent computer equipment. Software and text includes, but is not limited to, Microsoft Word, Power Point, Excel, digital pictures, computerized drawings done with AutoCad/Revit software. School to work will be explored as well as higher education pathways. Students that excel in usage of the software will be encouraged to take certification test in AutoCad/Revit in the advance architecture class and Practicum

Each of the instructed areas within the field of Architecture will require the student to work independently, in teams, and in groups- depending on the assignment given. All students will gain computer skills, use creative thinking and critical thinking and decision-making skills on multiple tasks throughout the semester. Career exploration, language arts exercises, logical reasoning problems, mathematic problem solving, reading comprehension, research projects, and science and technology usage will be on-going.

Careers and opportunities in this field will be investigated throughout the school year. Sketching, printing and orthographic drawings using basic drafting tools will be used continuously during the year as well as AutoCad/Revit drawing developments of various plans such as site plans, foundation plans, framing plans, roof plans, electrical plans, plumbing plans, floor plans and many types of elevations. Each student will build a scaled model of a home that they design according to teacher criteria as time allows. A portfolio will be created, evaluated, and used the semester for the student to have at the end of the semester.

LATE WORK:

- Teacher designates due date and time for assignment (Beginning of class period, End of class period, designated time of day)

- If student fails to meet the due date and time, then the student has till the next class period (next A day or B day) to turn in assignment to be considered one day late.
- Students will be assessed a penalty of 30% points for up to one class period late.
- Score of a zero may be given for work turned in after one day late.

MAKEUP WORK:

- The teacher may assign the student makeup work based on the instructional objectives for the subject or course and the needs of the individual student in mastering the essential knowledge and skills or in meeting subject or course requirements.
- A student will be responsible for obtaining and completing the makeup work in a satisfactory manner and within the time specified by the teacher. When absent, the student is afforded the number of days missed plus one additional day to turn in makeup work. [A/B Block Example: A student misses Monday and Tuesday of the week and he/she returns on Wednesday of that same week. Student work from Monday's absence is considered late after Friday, and student work from Tuesday's absent is considered late after the following Monday.]
- A student who does not make up assigned work within the time allotted by the teacher will receive a grade of zero for the assignment.
- A student is encouraged to speak with his/her teacher if the student knows of an absence ahead of time, including absences for extracurricular activities, so that the teacher and student may plan any work that can be completed before or shortly after the absence.
- A student will be permitted to make up tests and turn in projects due in any class missed because of absence. Teachers may assign a late penalty to any long-term project in accordance with time lines approved by the principal and previously communicated to students.
- See UIL Eligibility ("No Pass/No Play") guidelines for additional information related to grades and UIL Eligibility.

TARDY POLICY: Any tardy to class will be treated per student handbook and regulations. If a student is tardy 20 minutes after class is scheduled to start or re-start, they will be counted as absent. Any missed exams or assignments will be treated according to MISD policy.

Please review the classroom rules, as they must be strictly enforced in this computer lab. No student will be allowed to use any computer in the lab until a signed **Student Technology Use Guideline** form and **maintaining a Healthy, Active LAB** and **Classroom Management Plan** form is returned to student's home campus

The grading structure will be based on 100 points for the semester. All daily work will be graded in the 60% (percentile) bracket. Projects, test and quizzes will be assigned to a 40% bracket. Per district policy the semester exam will be assigned 20% of student semester grade. Student grades will be posted in Skyward parent portal within five business days for daily grades and major grades. Special consideration is given to major projects, including lengthy writing assignments.

Grading Practices:

Six week grades shall be obtained by averaging daily work (homework, class work, or daily/pop quizzes, MISD Curriculum Based Assessments, etc.) and major grades (tests, projects, lengthy assignments, etc).

Grading Percentages:

A	90-100
B	80-89
C	70-79
F	Below 70

SEMESTER EXAMS

Each semester, specific exam schedules are designated for MISD high school and dual credit courses. These schedules must be followed. Neither mid-term nor final exams are given early. If a student is absent on the day of an exam he/she will take the exam at a date/time designated by the school.

Re-take Policy:

- Students who fail a major test/assessment (below 70%) will be allowed to retake or correct up to a 70% grade. This does not include semester examinations.
- Students are expected to make arrangements with the teacher to retake or correct a major test/assessment.
- Students are encouraged to participate in tutoring opportunities before retaking a test.
- Each teacher will communicate routine requirements for retakes and corrections in his/her course syllabus.
- All retakes or corrections must be completed prior to the end of each six week grading period unless the student is afforded time, after the six week grading period, as a result of the district's absent/make-up guidelines.

It is possible for a student to absent fail and it is the responsibility of the student (and parent or guardian) to be aware of the absence or tardy to take the responsibility to notify the administration of their responsible home campus to do any credit recovery. Please check with the district about the times and the dates offered as they may vary due to which pathway the student is following, blocks, sessions, or TCC regulations.

Grades to be possibly taken during the semester will be: (This may be used as a check list)

Weeks 1-6

Student/Parent Forms

Measurement

Sketching- One point & two point perspective

Career Discovery, Steps to becoming an Architect.

Lettering

Urban Design

Weeks 7-12

Relative Graphing

Polar Graphing
Dimensioning
Career Portfolio
Teamwork
City Government
Profession Work ethic, Professionalism, Public Relationships
How to Read an Architecture scale

Weeks 13-18

My room floor plan
Employment Skills
Interpreting Workplace documents
Product Search
Introduction American Disabilities Act
Building Codes
CAD Drawing packets #4 (10 drawings), #5 (10 drawings), #6 (5 drawings)

Portfolio (Notebook) will be created from the first day of class and will be evaluated multiple times throughout the semester.

CERTIFICATIONS:

This Principles of Architecture class currently does not offer any type of certifications. AutoCAD/Revit certifications test are available in the Advanced Architecture Design II

CLASSROOM MANAGEMENT PLAN:

I intend for my class to maintain a positive learning environment where the student and the teacher will each benefit from the transfer of and the building up of knowledge and skills throughout the school year. For this to occur, please read the basic guidelines that I incorporate each day in my classroom.

Philosophy: Students that are enrolled in my class are responsible for their own behavior. They will be held accountable for the choices that they make throughout the school year. I believe it is possible for each student to achieve to the extent that they apply themselves in all areas of instruction and class activities.

I EXPECT EACH STUDENT TO:

- 1) Arrive to class as expedient as possible.
- 2) Take assigned seat and be ready to work upon entry to class.
- 3) Remain in their seat/work area upon entry to class.
- 4) Not touch other students or their belonging at any time.

- 5) Be attentive and not talk when the teacher is instructing.
- 6) Always use proper language and tone of voice in the classroom.
- 7) Not leave the classroom until teacher dismissal.
- 8) Not abuse or misuse computers, lab equipment, furniture or supplies.

IF THE STUDENT CHOOSES NOT TO FOLLOW THE REGULATIONS, THE FOLLOWING CONSEQUENCES WILL BE IN PLACE:

- 1) Verbal warning.
- 2) Time out and/or separation from peers.
- 3) Removal from lab. Alternative work to be assigned when possible.
- 4) Referral- administration consequences.

Parents will be contacted as needed throughout the discipline steps. Citizenship may be adjusted as necessary.

GENERAL CLASSROOM RULES:

All code of conduct rules from the MISD Student Handbook will be in place at all times.

All regulations found under the Student Technology Use Guidelines from MISD will be in place all times.

The Classroom Management Plan will be in place all times.

Students will adhere to BBIA policy not to have any food, candy, or drinks in any room.

Students must wear their ID badges at all times in the classroom, in the halls and restrooms, and in school.

Students are not allowed to turn on any computer without permission. Students may not use the internet without specific permission. Students will not check email, grades, or play any games as per district and campus policy.

Students will not change any setting or arrange any files on any computer, nor will they open any other students folder at any time for any reason that may be on the desktop.

No personal phones will be allowed to be visible or used in the classroom.

No headsets or personal communication electronics, will be allowed to be used in the classroom at any time. Personal electronic devices are not allowed to be accessed in the classroom.

IPAD will only be used in the classroom instruction of this class. Each student is responsible for their IPAD. Each student must have filled out an acceptable use policy for the IPAD. The IPAD will only be used for instruction purposes during class time.

No personal grooming or make-up is allowed to take place in the classroom.

Students are expected to use restroom facilities and get a drink prior to beginning of class. Only emergency needs will be allowed during the class period.

If a student is allowed to leave the class for a specific need, they are to go to the nearest restroom, or the nearest water fountain, or directly to the predetermined destination- not to the snack machine, not to the drink machine, not to the cafeteria, not to make a phone call, not wandering the hall and they are to return to class in a reasonable amount of time.

Students are not allowed on the teacher computers or at the teacher desk area without permission.

B. Academic Dishonesty will be tolerated in class.

• Academic dishonesty includes, but is not limited to: plagiarism, fabrication of information or citations, submitting the work of another person, allowing another person to substitute for oneself in completing course work or taking a course test, submitting work previously used without informing the instructor and securing written approval, or tampering with computer files and/or academic work of other students.

Consequences for academic dishonesty

Daily Work

- Every Offense
 - Academic and Disciplinary Consequences
 - Assign grade of zero
 - Write a referral
 - Teacher contacts parents
 - Consequence from administrator would be a minimum of AC placement

Exams or Other Major Assessments

- Every Offense
 - Academic and Disciplinary Consequences
 - Assign grade of zero
 - Write a referral
 - Teacher contacts parents
 - Consequence from administrator would be a minimum of AC placement
 - An alternative exam or major assessment can be completed for a maximum grade of 70%
 - Academic Associate is notified and will schedule a meeting with student, parent and teacher

**Please send this page of the Syllabus back to Mr. Almanza with
Parent's/Guardian's signatures**

I HAVE READ THE CLASSROOM MANAGEMENT PLAN AND THE GENERAL CLASSROOM
RULES:

Student Printed Name _____

Student signature: _____

Parent signature: _____

Date: _____

You may contact me at: andrewalmanza@misdmail.org or leave a message at 682-314-1600