

Ben Barber Innovation Academy  
Advance Architecture Design II

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**A Syllabus for: Architecture Design II & Practicum**

Prerequisite: Architecture Design I  
Conference Block: 10:00-10:45  
2:30-3:00

Placement: 11-12  
Classroom: B-225

Architectural Design II and Practicum 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 and Revit software. This course of study is a two semester. 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 architecture.

Practicum students will be job shadowing/interning with architecture companies. Each week the students will document hours worked on a weekly hour report, write a practicum weekly report. Practicum students will follow the same syllabus as the Architecture Design II. Students will complete the Revit Advanced curriculum. Students can take the AutoCAD/Revit Certified User Exam upon completion of curriculum software.

Instruction is given using the latest version of Revit software and the most recent computer equipment. Computer software includes, but is not limited to, Microsoft Word, digital pictures, computerized drawings. 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 the certification test.

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. 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. A portfolio will be created, evaluated, and used the entire year for the student to have at the end of the school year.

**LATE WORK**: Students may be assessed a penalty of no more than 10 points per A or B day (this is not calendar days) for up to a maximum of three class periods before a zero may be given for work not turned in on time.

**MAKEUP WORK:**

The student may make arrangements to come before school, during their break times, or after school to do make-up work per the **MISD policy as stated within the student handbook** as long as it is pre-arranged with the instructor. It must be noted that the student is responsible for making these arrangements within the scope and time allowable- *not the teacher*. This course is a very comprehensive course to where attendance is very important as well as make-up work needs to be timely.

**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.

The grading structure will be based on 100 points for the semester. All daily work will be graded in the 60% (percentile) bracket. Project, test and quizzes will be assigned to a 40% bracket. Per district policy the semester exam will be assigned 20% of the student grade. Student grades will be posted in the 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:**

<b>A</b>	<b>90-100</b>
<b>B</b>	<b>80-89</b>
<b>C</b>	<b>70-79</b>
<b>F</b>	<b>Below 70</b>

**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 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 either sessions, or TCC regulations.

## **Course Schedule**

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

### **Weeks 1,2,3,4,5**

Student/Parent Forms  
Learner Orientation

Personalize Your Course

New For AutoCAD 2016

Defining Block Attributes

### **Weeks 6,7,8,9,10**

Understanding External References

Working with Advanced Drawing Options

### **Weeks 16,17,18,19,20**

Working with Data Exchange

Grouping and Advanced Editing of Sketched Objects

Mid Course Survey

### **Week 22,23,24,25,26**

Accessing External Databases

AutoCAD on Internet

### **Weeks 27,28,29**

Script Files and Slide Shows

Creating Linetypes and Hatch Patterns

### **Weeks 30,31,32,33**

Customizing the acad.pgp File

Technical Drawing with AutoCAD

### **Weeks 34,35**

Isometric Drawings

Post Course Survey

Construction of Framing

3-D modeling kit

Complete Model

Scale model of student designed home (assembled using balsa wood framing with kit combination).

### **Week 36**

Review of Final

Semester Final Exam

### **CERTIFICATION:**

The Architecture Design II/Practicum offers an **Autodesk AutoCAD/Revit Certified User certification and a Certificate of Excellence**. These certifications align both academic and industry requirements into one attainable certifications specifically designed for architecture students.

Cost: Students: \$36.25 MISD: \$ 36.25 Total: 72.50

Location: BBIA Architecture computer lab; on the internet

Testing Dates: Completion of the Revit curriculum

External Requirement: Revit curriculum & reviews can be studied on home computers

### **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:** Andrew Almanza

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.

Procedures for Maintaining a Healthy, Active LAN at BBIA 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 drink in computer lab.

Students must wear their student ID badges at all times in class, in the hall or restroom and on campus.

Students are not allowed to turn on any computer without permission. Students may not use the internet without specific permission. Students will not check mail, 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 cell phones will be allowed to be visible or used in the classroom except when authorized by the teacher

No headsets will be allowed to be used in the classroom at any time. Personal electronic devices are not allowed to be accessed in the classroom except when authorized by the teacher.

IPADS will only be used in the classroom instructions. Each student is responsible for their IPAD. Each student must have filled out an acceptable use policy for that piece of equipment. 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 school store, not to the snack machine, not to the drink machine, not to the cafeteria, not to make a phone call, not wandering the halls. And students are to return to class in a reasonable amount of time. If a student breaks this rule, parents will be notified.

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

Academic Dishonesty will not 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.

**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: \_\_\_\_\_

You may contact me at: [andrewalmanza@misdmail.org](mailto:andrewalmanza@misdmail.org) or leave a message at 682-314-1600