NEW RIVER COMMUNITY COLLEGE
DUBLIN, VIRGINIA

COURSE PLAN

Course Number and Title:  ARC 123 - Introduction to Architectural Drafting

Prepared by: CAD Faculty  Fall, 2014
(Instructor)  (Date)

Approved by:  Fall, 2014
(Dean)  (Date)

I. Course Description

Introduces fundamentals of architectural drafting and planning of functional buildings. Presents architectural lettering, symbols, and dimensioning, and working drawings including site plans, floor plans, elevations, sections, and details.
Prerequisite: Class intended for second year architectural students or for students with instructor’s permission. Lecture 2 hours, lab 3 hours, total 5 hours per week. (3 credits)

II. Introduction

The instructor will guide students through the basics and introductory principals of REVIT Architecture. REVIT is the current industry standard in Parametric Modeling for Architecture as well as the only software that is used to support BIM on global scale.

III. Student Learning Outcomes

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

1. work with industry standard software in the creation of details, floor plans, elevations and 3D models in area of architecture.

2. create material for final Portfolio at the end of the program

3. function at a higher level in human relations, communications, and other aspects of general education.
IV. Instructional Methods

- Lecture
- Chapter Outlines(by Students)
- In Class Exercises
- Video Tutorials
- Online Video/Youtube Tutorials/Instruction
- Project Based Instruction

V. Instructional Material

Resource Material for Instruction


- Architectural Scale
- .5 Mech Pencil
- .7 Mech Pencil
- .01 - .7 Pigment Markers
- .125 Graph Paper
- 9 x12 Vellum Tablet/book
- (DRAFTING KIT) available at Bookstore
There will be a comprehensive architectural project completed by the student during the 10\textsuperscript{th} – 14\textsuperscript{th} Week of the semester.

VI. **Course Content**

**Subjects covered during this course will include but not be limited to:**

- Floor Plan Design/Drafting
- Foundation Plans
- Framing Plans
- Details
- Longitudinal Sections
- Transverse Sections
- Simple Wall Sections
- Electrical Plans
- Reflected Clg. Plans
- Site Plans
- Proper Lettering for notes/callouts/labels and leaders

**Specific Objectives**

After completion of this course the student will:

- be able to maneuver aptly through the ribbon toolbars
- be familiar with the setup of REVIT projects and Families
- be able to create all the above mentioned type of plans and details
- be able to insert other type of CAD files “to scale” into REVIT to use as templates
- be able to create custom annotation styles and dimensions
- be able to create and edit basic mass elements
- be able to insert and edit different types of components
- be able to link other REVIT files and thusly begin to understand the very beginning of BIM
- be able to create custom line weights, line patterns, styles and customize other elements used within the project files.
- be able to complete a full set of residential working drawings.
- export and link REVIT projects/materials with 3Ds Max for render farm rendering.
VII. Evaluation

The numerical range for grades will be:

A = 91 - 100  Drawings/Assignments ................................. 65%
B = 81 - 90   Tests/Quizzes ........................................... 25%
C = 71 - 80   Attendance/Class part. ............................... 10% (Final Grade)
D = 61 - 70
F = 60 or below

VIII. Attendance

Regular attendance at classes is required. When absence from a class becomes necessary, it is the responsibility of the student to inform the instructor prior to the absence whenever possible. The student is responsible for the subsequent completion of all study missed during an absence. Any instruction missed and not subsequently completed will necessarily affect the grade of the student regardless of the reason for the absence.

IX. Cheating Policy

Students in the CAD/Architecture & Game Technology program will be held to the highest and strictest level of ethical educational conduct. Suspicion of Cheating &/or Plagiarism will result in an Incomplete “I” grade for that project, test or homework assignment. Upon review if it is determined that the student was in violation of the schools cheating policy, he or she will receive the Grade of “F” which will be calculated as a ZERO “0” averaged in with other grades for the project automatically, may receive an “F” for the course and will have to repeat the course in order to graduate. If the severity of the offense is enough as to warrant it, the student may be kicked out of the CAD program all together.

Cheating / Plagiarism may be defined as but not limited to the following for this curriculum.

- Turning in anything you did not do 100% yourself if it is an “individual” non-team project.
- Copying ANY part of someone else’s work
- Making the effort to copy or steal someone else’s work
- Taking someone else’s CAD electronic file and manipulating it to give the appearance that it is your own work.

X. Withdrawal Policy

Student Initiated Withdrawal Policy

A student may drop or withdraw from a class without academic penalty during the first 60 percent of a session. For purposes of enrollment reporting, the following procedures apply:
a. If a student withdraws from a class prior to the termination of the add/drop period for the session, the student will be removed from the class roll and no grade will be awarded.

b. After the add/drop period, but prior to completion of 60 percent of a session, a student who withdraws from a class will be assigned a grade of “W.” A grade of “W” implies that the student was making satisfactory progress in the class at the time of withdrawal, that the withdrawal was officially made before the deadline published in the college calendar, or that the student was administratively transferred to a different program.

c. After that time, if a student withdraws from a class, a grade of “F” or “U” will be assigned. Exceptions to this policy may be made under documented mitigating circumstances if the student was passing the course at the last date of attendance.

A retroactive grade of “W” may be awarded only if the student would have been eligible under the previously stated policy to receive a “W” on the last date of class attendance. The last date of attendance for a distance education course will be the last date that work was submitted.

Late withdrawal appeals will be reviewed and a decision made by the Director of Student Services.

**No-Show Policy**

A student must either attend face-to-face courses or demonstrate participation in distance learning courses by the last date to drop for a refund. A student who does not meet this deadline will be reported to the Admissions and Records Office and will be withdrawn as a no-show student. No refund will be applicable, and the student will not be allowed to attend/participate in the class or submit assignments. Failure to attend or participate in a course will adversely impact a student’s financial aid award.

**Instructor Initiated Withdrawal**

A student who adds a class or registers after the first day of class is counted absent from all class meetings missed. Each instructor is responsible for keeping a record of student attendance (face-to-face classes) or performance/participation (DE classes) in each class throughout the semester.

When a student’s absences equal twice the number of weekly meetings of a class (equivalent amount of time for summer session), the student may be dropped for unsatisfactory attendance in the class by the instructor.

Since attendance is not a valid measurement for Distance Education (DE) courses, a student may be withdrawn due to non-performance. A student should refer to his/her DE course plan for the instructor’s policy.

In accordance with the No-Show Policy, a student who has not attended class or requested/accessed distance learning materials by the last day to drop the class and
receive a refund must be withdrawn by the instructor during the following week. No refund will be applicable.

When an instructor withdraws a student for unsatisfactory attendance (face-to-face class) or non-performance (DE class), the last date of attendance/participation will be documented. Withdrawal must be completed within five days of a student’s meeting the withdrawal criteria. A grade of “W” will be recorded during the first sixty percent (60%) period of a course. A student withdrawn after the sixty percent (60%) period will receive a grade of “F” or “U” except under documented mitigating circumstances when a letter of appeal has been submitted by the student. A copy of this documentation must be placed in the student’s academic file.

The student will be notified of the withdrawal by the Admissions and Records Office. An appeal of reinstatement into the class may be approved only by the instructor.

XI. Disability and Diversity Statements

If you are a student with a documented disability who will require accommodation in this course, please register with the Disability Services Office located in the Counseling Center for assistance in developing a plan to address your academic needs.

The NRCC community values the pluralistic nature of our society. We recognize diversity including, but not limited to, race ethnicity, religion, culture, social class, age, gender, sexual orientation and physical or mental capability. We respect the variety of ideas, experiences and practices that such diversity entails. It is our commitment to ensure equal opportunity and to sustain a climate of civility for all who work or study at NRCC or who otherwise participate in the life of the college.