

NEW RIVER COMMUNITY COLLEGE**DUBLIN, VIRGINIA****COURSE PLAN**Course Number and Title: DRF 155 - Introduction to Architectural DraftingPrepared by: Jeff Levy Fall, 2009
(Instructor) (Date)Approved by: _____ Fall, 2009
(Dean) (Date)**X.Resource Material for Instruction (BOOKS)**

A. Architectural Graphics Standards, Student Edition by: Bassler, c2008, published by Wiley Publishing ISBN:471-34817-1.

B. Residential Design Using Autodesk Revit, 2010 by: Daniel Stine, c2010, published by SDC Publishing ISBN: 978-1-58503-507-6

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: DRF -114, DRF 201 or instructor's permission. Lecture 2 hours, lab 3 hours, total 5 hours per week. (3 credits)

II. Introduction and Purpose

The instructor will teach some aspects of Hand Drafting and AutoCAD/Architectural Desktop to develop the basic principals for students in drafting and design in the Architectural World. Students will learn components of both Hand Drafting and ADT that will allow them to become more proficient in drawing different elements of Architectural working drawings.

Purpose:

1. To prepare men and women to work as drafting and technicians in construction, architecture and civil engineering related industries as well as to open their eyes to the possibilities furthering their education in Architecture. To provide the students with learning experiences that will enable them to advance on the job and keep pace with

industry.

2. To develop students' abilities in human relations, communications, and other aspects of general education.

III. Course Outline

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

- Orders of Architecture
- Hand Sketching
- Architectural Lettering
- Architectural Dimensioning
- Architectural Drafting Techniques
- Floor Plans (schematic, single line and full)
- Foundation Plans and Details
- Wall Sections 2D and 3D
- Creating Design Scopes
- Roof Styles
- Elevations
- Windows
- Doors
- Schedules
- Civil Eng. – Plot Plans, Topography, Site Work
- IBC Bldg. Code

IV. Specific Objectives

After completion of this course the student will be able to:

- Recognize the features of major traditional and contemporary architectural styles
- Demonstrate the proper techniques for hand sketching and lettering
- Identify the architectural symbols used in a set of working drawings
- Show proficiency in the use of a CAD system to create architectural drawings
- Identify the types of elevations and sections used in architectural drawings
- Use proper architectural dimensioning and labeling techniques
- Create a limited set of working drawings for a residential building
- Identify general roof types and characteristics
- Differentiate between various types of windows used in buildings
- Describe the principal types of doors used in buildings
- Understand architectural schedules

V. AutoCAD Architecture & REVIT Skill Sets

- Project setup and management
- Paper Space / Model Space
- Architectural Scaling
- 3D wall creation
- Drawing Annotation
- Dimensioning Standards
- Proper use of Callouts
- Creating links between and using Door and Window Schedules
- Using the Content Center
- Using Properties pallet
- Using the Design Center
- How to customize wall types, windows, doors etc...
- Creating 3D models, live wall and full house sections
- How to detail a drawing
- Proper placement of notes
- Rendering and Lighting
- Proper placement of notes
- How to apply materials to objects

There will be a comprehensive architectural project completed by the student during the 10th – 14th Week of the semester.

VI. 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%
D = 61 - 70		
F = 60 or below		

VIII. Attendance

Regular attendance at classes is **required**. When absences from a class becomes necessary, it is the **responsibility** of the student to both inform the instructor prior to the absence and schedule makeup time after the absence. Frequent unexplained absences may result in a dismissal from the course. The student is responsible for making up all work missed during an absence. The attendance policy of NRCC will be enforced in the class.

IX. Cheating Policy

NRCC policy on cheating (as found in Student Handbook and elsewhere) will be enforced.

Materials needed by student: (DRAFTING KIT) available at Mish Mish in Blacksburg.

XI. Withdrawal Policy**Student Initiated Withdrawal Policy**

A student may drop or withdraw from a class without academic penalty during the first sixty percent (60%) 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 sixty percent (60%) of a session, a student who withdraws or is withdrawn from a course 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" 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 revised and a decision made by the Coordinator of Student Services.

Instructor Initiated Withdrawal Policy

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 in each class.

Students who have not attended class by the last day to drop class and receive refund must be deleted by the instructor during the following week. No refund will be applicable.

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.

When an instructor determines that absences constitute unsatisfactory attendance, a Faculty Withdrawal Form should be completed and submitted to the Admissions and Records Office within five days of when the student met the withdrawal criteria. The last date of attendance must be documented. A grade of "W" will be recorded during the first sixty percent (60%) period of a course. Students withdrawn after the sixty percent (60%) period will receive a grade of "F" except under 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 for reinstatement into the class may be approved only by the instructor.

Since attendance is not a valid measurement for Independent and Distance Learning (IDL) courses, students may be withdrawn due to nonperformance. Students should refer to his/her IDL course plan for the instructor's policy.