RARITAN VALLEY COMMUNITY COLLEGE

ACADEMIC COURSE OUTLINE

INTR 210 Design Drawing II

I. Basic Course Information

A. Course Number and Title: INTR 210 Design Drawing II

B. New or Modified Course: new

C. Date of Proposal: Semester: Spring Year: 2011

D. Sponsoring Department: Visual and Performing Arts

E. Semester Credit Hours: 3 credits

F. Weekly Contact Hours: 5 Lecture: 2

Laboratory: 3

G. Prerequisites: INTR110 Design Drawing I, INTR112 Visual Concepts for Interiors Prerequisite or Corequisite: INTR111 Interior Design Studio II, INTR114 Color and Material Investigations

H. Laboratory Fees: Yes

I. Name and Telephone Number or E-Mail Address of Department Chair: Ann Tsubota, atsubota@raritanval.edu

II. Catalog Description

Prerequisites: INTR110 Design Drawing I, INTR112 Visual Concepts for Interiors Prerequisites or Corequisites: INTR111 Interior Design Studio II, INTR114 Color and Material Investigations.

This course is an introduction to Computer Aided Design for Interior Design. Students will produce work that represents three dimensional space in two dimensional CAD drawings and three dimensional digital models. The production of accurate multi-view drawings: floor plans, elevations, sections, reflective ceiling plans and details will be addressed. A combination of orthographic drawings /conventions and three dimensional modeling for smaller scale interior design projects will be explored. Software may include AutoCAD, Google SketchUP, 3D MAX and the Adobe Suite. Students will be required to purchase some art/design supplies.

III. Statement of Course Need

This course is a program requirement for the Associate of Science in Interior Design. The use of computer technology for the process of design and design-documentation is fundamental for Interior Design. It will establish the basic knowledge of digital communication and documentation for Interior Design. CAD is used for drafting, drawing and three dimensional representation for all phases of the interior design process.

IV. Place of Course in College Curriculum

- A. Free Elective
- B. The course is a program requirement for the Associate of Science in Interior Design and for the Interior Design Certificate.
- C. Course transferability: this course will transfer to most two and four-year schools (such as Kean University, NJIT, and the School of Visual Arts) as a foundation interior design course or as a free elective.

V. Outline of Course Content

- A. Use and application of digital drawing tools
- B. Use of accurate digital and traditional drawing conventions
 - 1. Layers
 - 2. Line weights
 - 3. Text and Notes
 - 4. Dimensions
 - 5. Hatches and Fills
 - 6. Graphic Symbols
- C. Drawing accurate plans, sections, elevations, and details of interior space
- D. Creating accurate specifications, notes and schedules for interior space
- E. Organization of plans, sections, elevations, schedules and details
 - 1. Sheet organization and layouts
 - 2. Title blocks
- F. Drawing and printing to scale
- G. Basic 3-D modeling, scene creation and rendering
- H. Digital presentation and color output

VI. Educational Goals and Learning Outcomes

A. Educational Goals

Students will:

- 1. Utilize CAD drawings and models in the documentation of interior space. (GE-NJ 1, 2, 4)
- 2. Apply orthographic drawing methods and conventions for accurate representations of three dimensional space in two dimensional CAD drawings. (GE-NJ 1, 2, 4)
- 3. Produce architectural drawings for small scale spaces using computer drafting techniques design development and documentation. (GE-NJ, 1, 2, 4)
 - 4. Create accurate 3D models for design development and presentation. (GE-NJ, 1, 2, 4)

B. Learning Outcomes

Upon completion of this course, students will be able to:

- 1. Read and produce scaled architectural CAD drawing for interior space.
- 2. Document and assess three dimensional space in two dimensional CAD drawings and 3D models.
 - 3. Apply CAD orthographic drawing methods and conventions to interior design projects.
 - 4. Design and specify interior design elements through CAD drawings, schedules and notes.
 - 5. Draw accurate technical CAD drawings for interiors.
 - 6. Interpret and create multi-view drawings for interior spaces.
 - 7. Use digital tools for the design process, documentation and visualization of interior space.

VII. Modes of Teaching and Learning

for

- A. Lecture/discussion
- B. Instructor demonstrations
- C. In class and Homework drawing projects
- D. Assigned readings
- E. Final Drawing project/presentation
- F. Individual and group critiques

VIII. Examinations, Projects and other Assessment Instruments

- A. Final drawing project/presentation
- B. Quizzes/Exams
- C. Oral Presentation/Informative Dialogue
- D. Drawing projects
- E. In class tutorials

IX. Grade Determinants

- A. Active participation in class discussions/activities
- B. In class lab work
- C. Completion, accuracy and craftsmanship of drawing assignments
- D. Final Drawing Project/Presentations

X. Texts and Materials

A. Suggested Textbooks:

<u>Digital Drawing for Designers, A Visual Guide to Autocad 2011,</u> by Douglas R. Seidler, Fairchild Books

<u>Construction Drawings and Details for Interiors: Basic Skills / Edition 2,</u> by Rosemary Kilmer and W. Otie Kilmer, Wiley, John & Sons, Incorporated

<u>Interior Design Illustrated/Second Edition</u>, by Francis Ching, Wiley, John & Sons, Incorporated <u>Architectural Graphics /Fourth Edition</u> by Francis Ching, Wiley, John & Sons, Incorporated <u>Hand Drawing for Designers</u> by Douglas R. Seidler and Amy Korte, Fairchild books

(Please Note: The course outline is intended only as a guide to course content and resources. Do not purchase textbooks based on this outline. The RVCC Bookstore is the sole resource for the most up-to-date information about textbooks.)

B. Materials:

Students will purchase, drawing/drafting materials, media to print and drives to store digital files.

XI. Resources

- A. Design Studio with drafting tables and portable drafting boards.
- B. Projector for digital lectures on drawing concepts.
- C. Tack boards for critiques.

Additional resources:

- A. Computer lab with web access and appropriate software.
- B. Wide format color plotter for drawings and presentations.
- C. College Library (database access to art, architecture and interior design)