ARCH/INS 101 Architectural Graphics 1
Portland Community College

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Course Syllabus

Course Textbooks:

Recommended Textbook: (Also used in other courses in the program)

Required Materials: Materials necessary will depend on individual preferences for drawing method and model building, etc. The computer lab has numerous software applications that will be useful for our work.

Drawing equipment and materials (See list) including colored pencils or pens
3 ring notebook or “folio”
Model making materials

COURSE DESCRIPTION:
CRN 41046/41871 Sylvania ST 240 M/W 9:00 am-11:50 pm 3/2 credits 12 week Term
An introduction to the design process and the common drawing types for residential design. Course topics include: programming; code/zoning/site analysis; concept diagrams; schematic design evolving into drawing of floor plans, elevations, sections; model building; and creating professional quality graphic presentations.

PREREQUISITES: None. ARCH 110 recommended for those with no previous drafting experience.

GRADING METHOD: Traditional Grades, Pass/No Pass, Audit; elected by second week of the term

STUDENT LEARNING OUTCOMES:
Concepts will be presented and discussed in class, followed by application of concepts and techniques through individual work on a set of documents. Upon successful completion of this course, students should be able to:
- Write a program for a specific user, identifying their spatial needs, any specific mechanical or equipment needs, and preferences in architectural styles and building materials.
- Within building (house), diagram appropriate rooms adjacencies reflecting program needs, with circulation indicated between spaces and openings to exterior; illustrate diagrams graphically.
- Conduct a site analysis, noting existing landscape, traffic flows, views, cues from adjacent buildings, site access, noise; record information graphically on small site plan.
- Establish a site diagram, showing schematic building layout, parking, outdoor space; illustrate diagram graphically.
- Develop diagram into a small, scaled schematic floor plans and sections, with window and door openings, and a basic structural system.
- Sketch a small, scaled front elevation from the schematic floor plan, with basic form and openings reflective of building materials, and user preference of an architectural style.
- Develop site plan, floor plans, and elevations from schematic studies into larger scaled and drafted drawings, which are reflective of exact site requirements, user activities, structural system, and building materials, and development of architectural style.
- Create a 3-D representation of design, through use of an architectural model, perspective, or axon drawing; using appropriate amount of detail to convey building massing and details characteristic of exterior.
- Produce drawings that display appropriate industry standards: line quality and basic standard architectural lettering, through use of hand drafting or CAD for term project.
- Create minimum professional quality graphics – black/white and color on reproductions of plans, elevations, and 3-D drawings, using methods presented in class; at a minimum plans should show shading on the site and building elevations, with color to highlight parking, walks, landscape, and interior furnishings.
- Present drawings to class audience, with verbal summary of user needs, design process, design solution, and presentation techniques explored.
COURSE ACTIVITIES: Course materials will be presented in a lecture and discussion format, using multimedia, demonstration, videos, and diagrams, which provide examples of building and site analysis, the design process, appropriate design solutions (built and student work), and model building and rendering techniques. The lecture/discussion will be followed by lab, where students will make application of concepts through a residential design term project.

ASSIGNMENTS: Assignments are noted in the course schedule topic outline. Descriptions of assignments and specific due dates will be provided in class. Students are expected to revise assignments considering review comments prior to continuing to next phase of the project.

LATE PROJECTS: ONE assignment will be accepted past the due date without penalty if turned in at the next class. Any other late assignments will lose 10% of assignment points per late class or lab session (not per week). Make arrangements in advance if circumstances arise that you will not be in class on due dates. Consider that it is possible to turn in assignments early. The late policy will apply to all projects regardless of the reason.

THE ELECTRONIC VERSION OF “THE DOG ATE MY HOMEWORK”: Please plan ahead and have a back-up plan so that your projects are ready to be turned in at the specified time. The fact that the computer, printer, plotter, or copy-house delayed, lost, mangled, or otherwise destroyed your work is a fact-of-life and should be accounted for in your project planning.

GRADING: Each student will make a commitment to their learning experience in this course with a “Learning Contract” that identifies the grade they seek to achieve and other measures of their success. This agreement is renegotiable in timely consultation with the instructor. Managing this agreement, attendance, participation, all project assignments (deliverables) contribute to the final grade. Each has a specified number of points as listed on Learning Contract and course Outline for a total of 300 points.

- 90% - 100% A or 270 points out of 300 possible points
- 80% - 89% B or 240 points out of 300 possible points
- 70% - 79% C or 210 points out of 300 possible points
- 60% - 69% D or 180 points out of 300 possible points
- 50% - 59% F or 150 points out of 300 possible points

POLICIES: It is important that you attend every class. Make arrangements to get notes and handouts from a classmate if you miss a class. Attendance will be taken at each class. If you have any questions, problems or need extra help, please be sure to talk to the instructor sooner rather than later. Additional time outside of class will be required to complete the assignments. Please read the college catalog and term schedule regarding the last day to drop a class and receive, a ‘W’, the use of ‘Incomplete’ grades, grading policies in general, and what to do when bad weather strikes or school emergencies.

WEATHER: In the event of extreme adverse weather or other emergency incidents the college may close. Notification of closure or delayed opening means that all PCC classes are canceled. Every effort will be made to make a decision on a closure by 5:00 a.m. The School Announcement Network will be notified immediately. The College switchboard (503-244-6111 or TTY 503-977-8877) will carry a closure announcement. If the school is open, but you feel that it is unsafe for you to leave your neighborhood, please take whatever action you feel is appropriate for your own safety. If I am unable to attend class due to circumstances or to weather even if the school is open, I will attempt to notify you in advance by email and leave a message on my campus voice mail, if the systems are operating. Assignment/exam calendars may be changed in response to institutional, weather, or class situations.

STUDENT WORK: The College reserves the right to photograph, use, display, or reproduce student work for College publications, special events, or classroom presentations. By enrolling in this course, the student agrees to the use of their projects as described above. Students should retain all coursework until the end of the term and grades are finalized. Student work should be picked up within 2 weeks after the end of the term. Check with the Instructor as to where and how this will occur. Work left after this time may be discarded. The College is not responsible for loss of or damage to student work. If the student does not wish their work to be used by the College as described above, please put this request in writing to the instructor.

USE OF ELECTRONIC DEVICES: To create a respectful and interactive learning environment all personal electronic devices, including but not limited to, computers, phones, pagers, iPods, cameras, PDA’s, lazer pointers, and rave lights, will be turned off or to a standby mode during class sessions. If you feel compelled to use the computer for personal business other than class activities, you will be asked to wait until the break or to STOP as appropriate.

DISABILITIES INFORMATION: Any student who feels s/he may need an accommodation of any type of disability, please make an appointment with the instructor and with the Office for Students with Disabilities. The Office for Students with Disabilities provides academic support services, which include counseling, advising, test-proctoring, writing and reading assistance, interpreting and transportation to students by request and eligibility.