

The Art Institute of Seattle

Course Syllabus

Course Title: INT120
Course Number: Drafting II

Course Description: This course develops the understanding of technical drawings, detailed drawings, and other components of an entire working drawing package using hand-skills introduced in Drafting I. Students develop and draft floor plans, elevations, sections, and details addressing architectural drafting standards.

Course Length: 11 weeks
Contact Hours: 44 hours
Credit Value: 3

Quarter Credit Hour Definition:

A quarter credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:

- (1) One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for 10-12 weeks, or the equivalent amount of work over a different amount of time; or
- (2) At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution including laboratory work, internships, studio work, and other academic work leading to the award of credit hours.

Course Competencies:

At the conclusion of this course the student should be able to:

- 1) Assess how building and interior systems, structural conditions, materials, interior detailing, and environmental factors interact.
- 2) Produce architectural drawings using hand drafting techniques and tools.
- 3) Produce a set of basic working drawings:
 - a) Cover sheet
 - b) Basic site plan
 - c) Floor plans (two floors)
 - d) Reflected ceiling plan
 - e) Interior elevations
 - f) Building sections (one to include a properly configured stair)
 - g) Building interior details
 - h) Schedules: Doors, windows, fixtures, and interior finishes
- 4) Demonstrate skills inherent in the production of construction drawings:
 - a) Consistent and proper use of line type and weight to discriminate between various components of construction.
 - b) Consistent and proper use of the symbols and conventions used in aligned dimensioning.
 - c) Consistent and proper use of the symbols used to identify the elements of typical building systems: structural, mechanical, plumbing, electrical, and communication.
 - d) Basic code requirements (stairs, egress, smoke detection).
 - e) Rational and consistent organization of drawings and information on the drawing sheets.
 - f) Personal time management during class period to ensure timely completion of the assignment(s).

Course Prerequisites: INT104 Drafting I

Rev: 8/29/11wre

Required textbook(s): ***Building Construction Illustrated 4th Ed.***, Francis Ching

Required Supplemental Materials: See Instructor's Syllabus Addendum

Grading Scale:

All assignments must have clear criteria and objectives met. All students shall be treated equitably. It will be the student's right to know his/her grade at any reasonable point that information is requested by that student. The criteria for determining a student's grade shall be as follows (on a percentage of total point's basis).

A	100-93
A-	92-90
B+	89-87
B	86-83
B-	82-80
C+	79-77
C	76-73
C-	72-70
D+	69-67
D	66-65
F	64 or below

Method of Assessment: See Instructor's Syllabus Addendum

Attendance Policy:

Students must notify the Registrar's Office if they will be missing two weeks of classes. After two consecutive weeks of absences in all courses students are subject to being administratively withdrawn from school, regardless of notification.

Plagiarism:

Students are expected to meet academic standards of honesty in all aspects of their work at The Art Institute of Seattle. All work submitted, including papers and projects, written and oral examinations, and oral presentations and reports, must be free of plagiarism. **Plagiarism is using the creations, ideas, or words of someone else without formally acknowledging the author or source through appropriate use of quotation marks, references, and citations.**

Examples of plagiarism include using another person's ideas as your own; copying words from a book or magazine without using quotes and citation; paraphrasing another person's work without citation; or presenting designs, art or digital files created by someone else as your own. Any student who is uncertain whether his or her use of the work of another will constitute plagiarism should consult the course instructor before submitting the course work involved. Citation standards and guidelines are available from you instructors and The Art Institute Library.

The Art Institute of Seattle Policy on Plagiarism: It is the policy of The Art Institute of Seattle that students who copy or otherwise plagiarize the assignments, examinations, artwork, media or projects of other individuals are subject to disciplinary action, including failure of the course in which the plagiarized work was submitted or possible termination from The Art Institute of Seattle.

Disability Policy Statement:

"It is AIS's policy not to discriminate on the basis of disability in its educational programs. If you have a disability-related need for adjustments or other accommodations in this class, contact the Disability Services Department at 206-448-0900 Ext 2308."

Syllabus addendum (changes may be announced)

Instructor:

S. Joshua Brincko, Architect, M.Arch, ASFD, NCIDQ cert

Email: jbrincko@aia.edu

Office hours: <http://internationalstudio.us/appointments.html>

Attendance Policy:

- Attendance has a very strong impact on success in this course. Design is a process that builds upon all information that has been presented, and an absence typically causes a student to drop a letter grade. It is the student's responsibility to learn all the required information and submit all required work in advance if an absence cannot be avoided.
- Extensions can only be granted with doctor's notes, court hearings, and funeral certificates pursuant to AIS policy

Late Work Policy:

- All assignments must be submitted prior to the assigned due date and time to receive credit. Because of industry standards, late work is not accepted for credit. You may submit late work for feedback, but no grade can be assigned. Because there are about 10 assignments per quarter, 1 missed assignment is approximately 10% of your grade and therefore usually causes your overall score to drop 1 letter grade.
- Late work is handled according to Deadline Policy 1 in the current edition of the Art Institute of Seattle Catalogue.

The Academic Support Center:

- The Academic Support Center, in SC Room 614, assists students in their academic endeavors.
- Drop-in tutoring, tutoring-by-appointment, and testing services are available in the center.
- Students should arrange make-up testing with their individual instructors.
- The Academic Support Center is not an open lab.

References:

- Design and Form. Johannes Itten
- Building Construction Illustrated. Francis Ching
- Architecture Form, Space, and Order. Francis Ching
- Architectural Graphics. Francis Ching
- Design Drawing. Francis Ching
- Metropolitan Home Magazine
- Metropolis Magazine
- Dwell Magazine
- Surface Magazine
- Architectural Record Magazine
- Interior Design Magazine
- International Studio website: www.internationalstudio.us

Criticism:

Critiques, or "crits," are the traditional and essential method of receiving feedback on a design project. The design process relies upon crits to analyze preliminary conclusions as they become realized. At the start of a design project, you do not know the best answer to a multi-faceted complex problem involving the sun, weather, views, privacy, access, circulation, spatial relationships, culture, materials, budget, construction, codes, schedule, and many other factors. Each week, your goal is to evaluate as many potential answers to these problems as possible. The more work you invest in evaluating options, the more analysis may be invested during your weekly crit to evaluate the data to determine best solution to these complex problems. Evaluating these potential options is a scientific process of testing your hypotheses (trial-and-error). A crit is not an attack on your personal taste or personal character – it is a logical analysis to determine

the most rational solution. In fact, personal taste and personal character plays no role in any aspect of this course. This course is a design studio, and the incremental development of your project is far more important than the outcome of the project. In an 11 week quarter, you have 10 opportunities to receive a crit during class. To be successful in this course, you must seek frequent meaningful criticism (from peers and faculty) to evaluate as many options as possible, understand what works, and understand what does not work in an effort to develop your project into the best solution in the time allotted.

Process for Evaluation:

- Progress Grades: A progress grade is given every class.
 - 2 points will be awarded for a complete assignment regardless of correct technical execution related to that assignment.
 - 1 point will be awarded for a partially complete assignment.
 - 0 points will be awarded to all substantially incomplete and late assignments. Assignments are due at the start of class time. Late assignments will not receive a progress grade but will be re-evaluated with the final project.
- Final Project Grade: All previous assignments will be re-evaluated on the last class for quality and technical correctness. The student is required to correct and enhance all progress assignments including but not limited to the feedback given on those assignments.
- Final Course Grade: The total of the progress grades and the final project grade will be averaged together to determine the final course grade.

Classroom Policies:

- All students are expected to arrive at class on time to submit assigned work at the start of class.
- Students are expected to work on previous, current, or future assignments while they are waiting during individual critiques. Students may also critique other students' work.
- Students are expected to have drafting materials available every class.
- Students are expected to have tracing paper and a red pen available at every class.
- Students are expected to bring all previous assignments to every class.
- Late work is handled according to Deadline Policy 1 in the current edition of the Art Institute of Seattle Catalogue.

Submittal outline (subject to change):

- Week 1
 - **During Class**
 - introduce activity
 - begin image research
 - create preliminary floor plan and perspective sketches of furniture layouts, cabinetry, fireplace, and special wall treatments
 - **Assigned Homework:** using magazines, internet, photos, etc, create an image book of relevant contemporary images including architecture, furniture, art, materials, etc
 - label all images and include a brief description of each image
 - image book must have a creatively designed cover page; include your preliminary sketches in the back of the image book (resubmit with final dwgs)

complete (II) incomplete (I) late/unprepared/not submitted (0)

- Week 2
 - **During Class** (INT1.0 - floor plan - scale: $\frac{1}{4}'' = 1'-0''$)
 - presentation of image books
 - lecture on floor plan design
 - draw main and upper floor plans (4" interior walls, 6" exterior walls)
 - **Assigned Homework:** floor plans - use proper line weights and line types, draft furniture, fixtures, cabinetry, and floor materials in every room; also include the fireplace

complete (II) incomplete (I) late/unprepared/not submitted (0)

- Week 3
 - **During Class** (INT1.0 - floor plan scale: $\frac{1}{4}'' = 1'-0''$)
 - critique of floor plans
 - lecture on floor plan dimensioning, annotations, and title block
 - begin revising floor plans and continue to add images to image research
 - **Assigned Homework:** revise your floor plans based on feedback from critique
 - north arrow
 - add all dimensions to both floors
 - label and number all rooms (not closets)
 - label floor materials; create a table that identifies hatches used
 - add window and door symbols
 - add interior elevation symbols (omit #'s)
 - add transverse and longitudinal building section symbols (omit #'s)
 - add stair symbol (omit #'s)
 - add drawing title with number and scale
 - add a title block (sheet #, sheet name, set name, project name and contact, your name and contact, date, area for stamps, area for revision note, logo)

complete (II) incomplete (I) late/unprepared/not submitted (0)

- Week 4
 - **During Class** (INT2.0 - building section scale: $\frac{1}{4}'' = 1'-0''$)
 - critique of floor plans
 - lecture on building section and stairs
 - sketch floor plan view and section view of stairs
 - revise floor plans and begin building sections
 - **Assigned Homework:** building sections
 - make any further revisions to floor plans
 - draw a transverse section through the living space including the fireplace
 - draw a longitudinal section through the stairs
 - add dwg/sheet numbers to section symbols on your floor plans
 - add tread/riser info on floor plans

complete (II) incomplete (I) late/unprepared/not submitted (0)

- Week 5
 - **During Class** (INT3.0 - interior elevation scale: $\frac{1}{2}'' = 1'-0''$)
 - critique of building sections
 - lecture on interior elevations
 - begin revising building sections and blocking out interior elevations
 - **Assigned Homework:** block out interior elevations
 - make any further revisions to building sections
 - block out interior elevations of every wall of kitchen/dining/living and lower floor bathroom

complete (II) incomplete (I) late/unprepared/not submitted (0)

- Week 6
 - **During Class** (INT3.0 - interior elevation scale: $\frac{1}{2}'' = 1'-0''$)
 - critique of interior elevations
 - lecture on annotations of interior elevations
 - layout interior elevations on sheets and drawing titles with scale and numbers
 - add numbers to interior elevation symbols on floor plans
 - **Assigned Homework:** revise interior elevations
 - add dimensions to overall cabinetry sizes, fixture locations (sinks, shower heads, towel bars, toilet paper, wall sconce lighting, etc)
 - label wall materials, rooms, window numbers, and door numbers

complete (II) incomplete (I) late/unprepared/not submitted (0)

- Week 7
 - **During Class** (E1.0 - electrical plan scale: $\frac{1}{4}'' = 1'-0''$)
 - critique of interior elevations
 - lecture on electrical plan and symbols
 - revise interior elevations and begin electrical plans
 - **Assigned Homework:** begin main and upper electrical plans (light plan w/ furniture)
 - revise interior elevations
 - add switches with circuit wiring
 - add lighting
 - add outlets
 - add exhaust fans (1 per bathroom, laundry room, and over stove)
 - add smoke alarms (1 per bedroom and also 1 per floor – not kitchen)

- add any ceiling information
 - complete (II)
 - incomplete (I)
 - late/unprepared/not submitted (0)

- Week 8
 - **During Class** (E1.0 - electrical plan scale: 1/4" = 1'-0")
 - critique of electrical plans
 - lecture on electrical symbol schedule and dimensioning
 - revise electrical plans
 - **Assigned Homework:** revise electrical plans
 - dimension all light fixtures
 - add electrical schedule
 - complete (II)
 - incomplete (I)
 - late/unprepared/not submitted (0)

- Week 9
 - **During Class**
 - critique of electrical plans
 - revise electrical plans and start plumbing and appliance schedules
 - **Assigned Homework**
 - plumbing fixture schedule (sinks, faucets, toilets, toilet paper holders, towel bars); print spec sheets and highlight applicable information
 - appliance schedule (washer, dryer, refrigerator, oven, dishwasher, garbage disposal); print spec sheets and highlight applicable information
 - UPDATE ALL PREVIOUS DRAWINGS AND **BRING** TO WEEK 10 CLASS
 - complete (II)
 - incomplete (I)
 - late/unprepared/not submitted (0)

- Week 10
 - **During Class**
 - critique of schedules
 - critique of entire drawing set
 - lecture on details
 - overview of final drawings
 - **Assigned Homework**
 - draw a cabinet detail and a countertop detail
 - update entire drawing set for final project submittal; tri-fold 11x17 to 8.5x11 size
 - make any additions or revisions to your image book
 - spiral bind your cover, description, drawings, images, preliminary sketches, and any additional information together
 - follow format of Final Project Requirements handout
 - complete (II)
 - incomplete (I)
 - late/unprepared/not submitted (0)

- Week 11
 - **During Class**
 - presentation of final projects.
 - **Assigned Homework**
 - make any necessary changes to include your project in your portfolio

Final Project Requirements: (This sheet is used to grade your final project)

- Spiral bound 8.5x11 format (collaborate with graphic design students for layout assistance)
 - cover page
 - 1 page project description
 - 11x17 drawings tri-fold to 8.5x11 size
 - A1.0 MAIN FLOOR PLAN (SCALE: 1/4" = 1'-0") with divider
 - A1.1 UPPER FLOOR PLAN (SCALE: 1/4" = 1'-0")
 - A2.0 TRANSVERSE BUILDING SECTION (SCALE: 1/4" = 1'-0")
 - A2.1 LONGITUDINAL BUILDING SECTION (SCALE: 1/4" = 1'-0")
 - A3.0 INTERIOR ELEVATIONS (SCALE: 1/2" = 1'-0")
 - A3.1 INTERIOR ELEVATIONS (SCALE: 1/2" = 1'-0")
 - A3.2 INTERIOR ELEVATIONS (SCALE: 1/2" = 1'-0")
 - A3.3 INTERIOR ELEVATIONS (SCALE: 1/2" = 1'-0")
 - A3.4 INTERIOR ELEVATIONS (SCALE: 1/2" = 1'-0")
 - A3.5 INTERIOR ELEVATIONS (SCALE: 1/2" = 1'-0")
 - E1.0 MAIN FLOOR ELECTRICAL PLAN AND SCHEDULE (SCALE: 1/4" = 1'-0")
 - E1.1 UPPER FLOOR ELECTRICAL PLAN (SCALE: 1/4" = 1'-0")
 - plumbing schedule with divider
 - plumbing cut sheets
 - appliance schedule with divider
 - appliance cut sheets
 - labeled, relevant images with divider
 - preliminary sketches with divider
 - additional information with divider

Point Totals:

(/20) main floor plan	(/20) =	% previous
assignments	(/200) =	% final project total
(/20) upper floor plan		% PROJECT GRADE
(/20) transverse building section		
(/20) longitudinal building section		
(/30) kitchen, entry, living, dining elevations		
(/20) guest bathroom elevations		
(/10) main floor electrical plan and schedule		
(/10) upper floor electrical plan and schedule		
(/10) plumbing schedule & spec sheets		
(/10) appliance schedule and spec sheets		
(/10) details		
(/10) images		
(/10) cover, description, table of contents, redlines		
(/200) total		