

San José State University
Department of Design, Interior Design
dsIT 101 Architectural Systems and Materials and Advanced Modeling Fall 2018

Course and Contact Information

Instructor:	Morana Medved IIDA, CID, LEED AP ID+C, WELL AP, EDAC
Office Location:	IS 205
Telephone:	408.791.7875 (contact by text only if you need a response within 24 hours)
Email:	morana@zagabria.net Emails sent Monday thru Thursday will receive a response within 48 hours, emails sent Friday thru Sunday will receive a response on Monday
Preferred Contact:	Email, Text only if there is an urgent issue
TA:	none
Office Hours:	Monday/Wednesday 6:00 – 6:50 PM or by appointment
Class Days/Time:	Monday/Wednesday 3:00 – 5:50 PM
Classroom:	IS 241
Prerequisites:	DSIT 33 and 34, co-requisite 104

Course Format

Hybrid, most classes are taught in person with online supplements and occasionally classes might be conducted online. Students are required to bring laptop to every class and follow the instructions in Canvas throughout duration of the course. Any updates to the class schedule or requirements will be posted in Canvas.

Course requirements include attendance at up to five professional events outside of class meeting times. Some of these events may charge an entrance fee. If you anticipate any difficulty in meeting this course requirement, please consult with the course instructor in the first two weeks of the semester.

Canvas:

All students should sign up for Canvas as all the course communication, class presentations, and most assignment submittals shall be managed through this system. These are instructions for logging in:

Canvas Login URL: <https://sisu.instructure.com>

Please note that it should NOT have the "www" at the start of the URL like many other websites.

Username: SJSU 9-digit ID

Support: www.sisu.edu/at/ec/canvas/student_resources/index.html

Course Description

This course covers the functional, aesthetic and environmental aspects of building materials and systems, focusing on the documentation of design through BIM software (Revit). Course content emphasizes the relationship between visualization of design ideas and the various architectural systems and materials necessary to realize those ideas as a finished construction project. Students learn to graphically represent and document 3D information of a complete building with emphasis on interior construction. This course is an upper division course requiring prior knowledge of space planning and familiarity with AutoCAD and Revit software. Class format includes lecture, software tutorials, guest lectures and off-campus professional events.

Course Learning Outcomes (CLO)

- Learn principles of architectural drafting and communication and basics of BIM (building information modeling)
- Understand the role of contract documents in design and construction including construction drawings, specifications and contracts
- Understand the basics of interior construction principles and methods including floor, wall and ceiling systems and finishes, doors, glazing and architectural millwork
- Gain basic knowledge of building systems such as structural, mechanical, electrical and plumbing, and specialty systems.
- Understand documentation through the development of diagrams, 3D computer aided modeling and BIM
- Master how to describe a project using 2D documentation of the building interior, finishes, and systems.
- Gain in-depth understanding of the relevance and importance of building plans, sections, elevations and schedules
- Learn basics of interior architectural detailing
- Understand the principles and role of architectural annotations and learn how to communicate effectively
- Learn the role of various trades involved in the architectural design and construction process and their interaction and communication

Required Texts/Readings

Textbooks

Designing Interiors [Paperback] by Rosemary Kilmer and W. Otie Kilmer, ISBN-10: 1118024648

Amazon: www.amazon.com/Designing-Interiors-Rosemary-Kilmer/dp/1118024648/ref=pd_sim_14_42?ie=UTF8&refRID=0K797X6N2WRZXQJYN4ZH

Construction Drawings and Details for Interiors: Basic Skills [Paperback], by Rosemary Kilmer and W. Otie Kilmer. ISBN-10 0470618159

Amazon: www.amazon.com/Construction-Drawings-Details-Interiors-Edition/dp/0470190418/ref=pd_sim_b_4?ie=UTF8&refRID=1Z21H7W3BQK6MD42NNEH

Time and Communication Management

Most students struggle with time management and proper electronic communication skills. There is no specific class covering these subjects these are crucial skills to learn and will significantly contribute to your success as a future designer. I strongly recommend the following books to assist you with these subjects.

Time Management for Architects and Designers, by Thorbjørn Mann. ISBN-10 0-39373-133-0

Amazon: www.amazon.com/Time-Management-Architects-Designers-Thorbjoern/dp/0393731332/ref=sr_sp_atf_title_1_1?s=books&ie=UTF8&qid=1402327636&sr=1-1&keywords=Time+Management+for+Architects+and+Designers

SEND: Why People Email So Badly and How to Do It Better, by David Shipley and Will Schwalbe. ISBN-10 0-30727-599-X

Amazon: www.amazon.com/SEND-People-Email-Better-Vintage/dp/030727599X/ref=sr_sp-atf_title_1_1?s=books&ie=UTF8&qid=1402327663&sr=1-1&keywords=SEND%3A+Why+People+Email+So+Badly+and+How+to+Do+It+Better

Other technology requirements / equipment / material

Software:

Autodesk Revit Architecture 2018.3

Can be downloaded for free at

<http://www.autodesk.com/education/free-software/all>

Make sure the most recent update 2018.3 is installed:

<https://knowledge.autodesk.com/support/revit-products/downloads/caas/downloads/content/autodesk-revit-2018-product-updates.html>

Ensure your computer meets minimum (Entry-Level) system requirements (Value is recommended):

(if you have a partitioned Mac also see VMware or Parallels requirements)

<https://knowledge.autodesk.com/support/revit-products/learn-explore/caas/sfdcarticles/sfdcarticles/System-requirements-for-Autodesk-Revit-2018-products.html>

Autodesk AutoCAD 2018

Can be downloaded for free at

<http://www.autodesk.com/education/free-software/all>

Adobe Acrobat (not Adobe Reader, to enable you to print to PDF)

(if you have a partitioned Mac this needs to be installed on PC side of your computer)

Full Adobe Creative Cloud is available for SJSU students:

<http://www.sjsu.edu/ecampus/teaching-tools/adobe/students/index.html>

Enscape (Revit VR Plug-in)

Free educational version can be requested at:

<https://enscape3d.com/educational-license/>

Materials (bring to every class, unless noted otherwise):

Sketchbook (plain white paper) – shared with DSIT 034, bring to every class

Flash (USB) drive large enough to back up all your work – back up once a week minimum

Drawing pens and pencils

Architectural scale

Tracing paper rolls (14")

Drafting dots

Push pins

25' long measuring tape (you will be told when it will be needed)

Resources:

Autodesk AutoCAD 2018 Help: <http://help.autodesk.com/view/ACD/2018/ENU/>

Autodesk Revit 2018 Help: <http://help.autodesk.com/view/RVT/2018/ENU/>

Autodesk BIM Library: <https://bimobject.com/en-us?origin=seek>

RevitCity Component Library: <http://www.revitcity.com/downloads.php>

Course Requirements and Assignments

Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of forty five hours over the length of the course (normally 3 hours per unit per week with 1 of the hours used for lecture) for instruction or preparation/studying or course related activities. Other course structures will have equivalent workload expectations as described in the syllabus.

The format of this course will be both lecture and studio with classes administered both in person and online. Students will have in-class multiple choice exams, in-class working sessions as well be a variety of assignments, both group and individual. Technical demonstrations will be provided online through Canvas and students will have an opportunity to work with instructor in class. Exams will cover lecture and handout information and will be administered through Canvas and graded immediately and other deliverables will be reviewed in class and graded through Canvas. Make sure to regularly log in Canvas and to sign up to have notifications delivered by email as this will be the main mode of communication for this class. If you know you will be missing a class contact the instructor BEFORE class to make arrangements to make up the exam or exercise.

All projects are due at the designated date and time and deliverables are required in format listed below. Late projects will not be accepted except in case of an emergency in which case you should contact instructor ASAP to make special arrangements. Up to a week extension will be granted on assignments only if instructor is contacted BEFORE the assignment is due.

Attendance per se shall not be used as a criterion for grading. However, students are expected to attend all meetings for the courses in which they are enrolled as they are responsible for material discussed therein, and active participation is frequently essential to ensure maximum benefit to all class members. In this case, attendance is fundamental to course objectives; for example, students may be required to interact with others in the class. Attendance is the responsibility of the student. Participation will be used as a criterion for grading as the parameters and their evaluation are clearly defined in the course syllabus and the percentage of the overall grade is stated.

All lectures, exams, in-class exercises and student presentations will be held during class time. If you miss a class, it is your responsibility to find out what you missed BEFORE the next class. Technical demos and lectures will not be repeated for students who miss a class. It is your responsibility to find out about any announcements made in class, by communicating with your classmates.

Class participation will impact your final grade. Class participation is expected at all lectures, including those by guest speakers and off campus events, and should include asking and answering questions in class and participating in discussions. All classes start at the time indicated on the class schedule. Students who are late

will be considered non participants. In addition to in-class participation the students are expected to attend five IDSO, AIA, ASID, USGBC or IIDA events, two of which have to be non-IDSO events. To confirm your attendance provide a 250 word description of event you attended within TWO WEEKS of attendance and submit it in PDF format through Canvas. If you do not submit the write ups your event attendance will not be counted towards your final grade. Some of these events may charge an entrance fee. If you anticipate any difficulty in meeting this course requirement, please consult with the course instructor in the first two weeks of the semester.

There are several ways to earn extra credit in this class and they are described under grading policy.

Deliverable Requirements

One of the goals of this class is to learn to communicate professionally which includes always fully reading and understanding requirements and following them in every detail. You are required to submit all their assignments following these guidelines:

1. All assignments need to contain student name and assignment date in the body of the assignment.
2. All assignments and extra credit submissions are to be submitted in PDF format and be 20 MB or less in size unless different size is specified in assignment (file size can be reduced through Adobe Acrobat if necessary).
3. All assignments executed in particular scale need to be PDF-ed to print full size to scale (100% and not fit to page in print settings).
4. All attached files should follow this naming format: DSIT 111_Your Name/Group Name_Assignment Name_Date (8-digit year/month/day format)

Assignments not following this format will receive a **up to one-point grade deduction** (quarter point deduction for each violation). All assignments are due to be uploaded to Canvas by 11:00 AM the day it is due in class. Please allow time for last minute issues. Assignments are due through Canvas even if a hardcopy is required in class. Late submissions will get a point deduction for each day they are late and will not be accepted more than 48 hours late unless prior arrangements have been made with the instructor.

Final Examination or Evaluation

Final presentation of Project 2 (Canvas upload and hardcopy in class) is the final evaluation for this class, scheduled during regular class hours on the last day of class, as noted in the schedule.

Grading Information (Required)

Participation

Class Participation - In-class activity	5 points
Events (with 250 word summary - electronic)	5 points

Assignments

Warm Up Assignment	5 points
Project 1	30 points

Exams

Exams 1 - 5

25 points (5 each)

Extra Credit

Option 1:

Participate in AIA, ASID, USGBC or IIDA event and provide a 250-word summary about the event **AND** a 50-100 word summary EACH for two professionals you met at the event – include name, where they work, what kind of work they do, what type of accreditations they hold, what is their work environment like, and turn in following standard deliverable format. Total summary should be 350-450 words long. Possible credit is 1 point per event, 5 points max per semester. Joining LinkedIn is pre-requisite for extra credit. To receive extra credit, the extended event summaries need to be received within TWO WEEKS of event.

Option 2:

Create a documentation guide listing all of components of a construction documents package. It should be a combination of a checklist and a visual tool that includes all of the documentation requirements covered in class and allows checking of drawing package for each phase. Turn the assignment in through Canvas and present it in designated class. This can be an individual or partner (two students) assignment for a maximum of 5 points.

Grading Scale

The grading scale is as follows (points, not percentage):

97-100 = A+	93-96 = A	90-92 = A-
87-89 = B+	83-86 = B	80-82 = B-
77-79 = C+	73-76 = C	70-72 = C-
67-69 = D+	63-66 = D	60-62 = D-
59 and below = F		

A Excellent. Indicates work of a very high character; the highest grade given. This grade is reserved for work that shows leadership and inspiration, demonstrating significant insight developed to its fullest extent and presented with exquisite craftsmanship.

B Good. Indicates work that is definitely above average, though not of the highest quality. This work shows thorough exploration and development, and is well presented with good craftsmanship, but it may not rise to the highest level of excellence.

C Fair. Indicates work of average or medium character. Work in this category demonstrates complete fulfillment of the stated requirements and an understanding of the issues covered, but does not exceed the expectations of understanding, development, or execution.

D Pass. Indicate work below average and unsatisfactory. It is the lowest passing grade. Though work may meet the minimum requirements, it lacks depth, development or is unsatisfactorily crafted.

F Fail. Indicates work that the student knows so little of the subject that it must be repeated in order that credit may be received. Work in this category may be unfinished, unimaginative, underdeveloped or poorly executed, and shows minimal understanding of issues.

Classroom Protocol

Cell Phones:

Students will turn their cell phones off or put them on vibrate mode while in class. They will not answer their phones in class. Students whose phones disrupt the course and do not stop when requested by the instructor will be asked to leave the class and will be responsible for any class activities they miss (NO MAKE UPS).

Computer Use:

In the classroom, faculty allows students to use computers only for class-related activities. Students who use their computers for other activities, including coursework for other classes, or who abuse the equipment in any way will be asked to leave the class and will be responsible for any class activities they miss (NO MAKE UPS).

University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be available on Office of Graduate and Undergraduate Programs' [Syllabus Information web page](http://www.sjsu.edu/gup/syllabusinfo/) at <http://www.sjsu.edu/gup/syllabusinfo/>" Make sure to review these university policies and resources.

General Expectations, Rights and Responsibilities of the Student

As members of the academic community, students accept both the rights and responsibilities incumbent upon all members of the institution. Students are encouraged to familiarize themselves with SJSU's policies and practices pertaining to the procedures to follow if and when questions or concerns about a class arises. To learn important campus information, view [University Policy S16-15](#) and SJSU current semester's [Policies and Procedures](#). In general, it is recommended that students begin by seeking clarification or discussing concerns with their instructor. If such conversation is not possible, or if it does not address the issue, it is recommended that the student contact the Department Chair as the next step.

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Add/drop deadlines can be found on the current academic year calendars document on the [Academic Calendars webpage](#). Students should be aware of the current deadlines and penalties for dropping classes ([Late Drop Information](#)). Information about the latest changes and news is available at the [Advising Hub](#).

Consent for Recording of Class and Public Sharing of Instructor Material

[University Policy S12-7](#), requires students to obtain instructor's permission to record the course and the following items to be included in the syllabus:

- o "Common courtesy and professional behavior dictate that you notify someone when you are recording him/her. You must obtain the instructor's permission to make audio or video recordings in this class. Such permission allows the recordings to be used for your private, study purposes only. The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute the material."
- o In classes where active participation of students or guests may be on the recording, permission of those students or guests should be obtained as well.
- o "Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his/her approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent."

DSIT 101 Fall 2018 Course Schedule

Schedule might change in the course of the semester, dates for guest lectures and off campus events are tentative and will be confirmed at least a week in advance. All schedule changes and announcements shall be made through Canvas, make sure you sign up for email notifications.

Course Schedule

Week	Date	Topics, Readings, Assignments, Deadlines
1	08/22	Syllabus, Warm up Assignment Introduced
2	08/27	Warm Up Assignment In-class Exercise
2	08/29	Warm Up Assignment In-class Exercise
3	09/03	LABOR DAY HOLIDAY – NO CLASS
3	09/05	Warm Up Assignment In-class Exercise
4	09/10	Lecture
4	09/12	Work Session/Desk Critiques
5	09/17	Guest Lecture
5	09/19	Work Session/Desk Critiques
6	09/24	Lecture
6	09/26	Work Session/Desk Critiques
7	10/01	Guest Lecture
7	10/03	Work Session/Desk Critiques
8	10/08	Field Trip
8	10/10	Work Session/Desk Critiques
9	10/15	Project 1 Pin Up
9	10/17	Lecture/Project 2 Schedule Review
10	10/22	Exam 1/Work Session
10	10/24	Desk Critiques
11	10/29	Exam 2/Work Session
11	10/31	Peer Reviews

Week	Date	Topics, Readings, Assignments, Deadlines
12	11/05	Project 2 Midterm Pin Up
12	11/07	Exam 3/Work Session
13	11/12	VETERAN'S DAY – NO CLASS
13	11/14	Exam 4 (NO CLASS – ONLINE ONLY)
14	11/19	Exam 5 (NO CLASS – ONLINE ONLY)
14	11/21	THANKSGIVING HOLIDAY - NO CLASS
15	11/26	Desk Critiques/Work Session
15	11/28	Peer Reviews
16	12/03	Project 2 Pre-Final Pin Up
16	12/05	Work Session
17	12/10	IS 241 at 3:00 PM – Project 2 Final Pin Up