San José State University  
Department of Design, Interior Design  
dsIT 101 Architectural Systems and Materials + Advanced Modeling (Revit)  

Course Information  

Class Days/Time: Monday/Wednesday 8:00a.m.-10:50a.m.  
Classroom: IS 241  
Prerequisites: DSIT 33, 34  
Course Fees: $35.00  

Instructor Information  

Instructor: Morana Medved IIDA, CID, LEED AP ID+C, EDAC  
Office Location: IS 205  
Telephone: 408.791.7875 (contact by text only)  
Email: morana@zagabria.net (preferred contact)  
Office Hours: By appointment only: Monday/Wednesday 7:30-8:00 a.m.  
Faculty URL: http://www.sjsu.edu/design/design_programs/interior_design_program/intd_faculty/morana_medved/  
TA: Negar Kouchaki n.kouchaki23@gmail.com  
Preferred contact: Email, always copy TA on all communications,  
Text only if there is an urgent issue  

Canvas: All students should sign up for Canvas as all the course  
communication, class presentations, exams and most assignment  
submittals shall be managed through this system. These are  
instructions for logging in:  
Canvas Login URL: https://sjsu.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: http://www.sjsu.edu/at/ec/canvas/student_resources/index.htm
Course Format

In person with online supplements as noted below. All exams will be administered through Canvas and Participation will be graded with assistance of iClicker student response system. Students are required to bring laptop to every class.

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

iClicker:
iClicker student response system will be used in class this term. iClicker facilitates in-class communication and gives everyone a chance to participate in class. iClicker will not be used to keep track of attendance. Participation with iClicker will account for portion of your In-class activity grade for up to 5% of your final grade.

iClicker remotes WILL NOT BE USED, instead you should sign up for iClicker GO which allows you to use your smart phone, tablet, or even laptop in class as a clicker to participate and is free.

Please visit http://tinyurl.com/l8yk5ns and fill out the request form for iClicker GO. You will be contacted by eCampus with further instructions.
Learning Expectations

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 Goals and Student Learning Objectives

- 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 3D representations and 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
Learning Assessment

Description of Assessments

The format of this course will be both lecture and studio. Students will receive in class technical demonstrations and be given take home assignments to complete. There is also a weekly multiple choice exam that covers lecture, textbook, and handout information and always cumulative. 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 lectures 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 and contacting the TA.

Class participation will impact upon your final grade. Class participation is expected at all lectures, including those by other students and guest speakers, and off campus events and includes asking and answering questions in class and participating in discussions. iClicker will be used to track In-class Participation so make sure to sign up for free account.

All classes start as 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 join IDSO and attend 5 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.

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.

There are several ways to earn extra credit in this class and they are described in the grading system section. In order to receive extra credit the extended event summaries need to be received within TWO WEEKS of event.

Exams will be administered through Canvas and graded immediately and other deliverables will reviewed and graded in class. 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.
Deliverable Requirements

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

1. All assignments are due to be uploaded to Canvas by 6 pm of the due date. Please allow time for last minute issues. Assignments are due through Canvas even if a hardcopy is required in class.
2. All assignments and extra credit submissions are to be submitted in PDF format and be 5 MB or less in size. Verify correct scale, lineweights and general clarity before uploading.
3. All attached files should follow this naming format: DSIT 101_Your Name/Group Name_Assignment Name_Date (8 digit year/month/day format)

Assignments not following this format will not be accepted and will need to be re-submitted. 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.

Grading System

Class Participation

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

Warm Up Assignment (hand sketching - hardcopy only) 5 points

Exams 1-5 (5 each) 25 points

Research Paper and Presentation (Group Project) 5 points

Semester Assignment – Individual Project (Small)

Pricing Plan 5 points

Construction Documents 15 points
Partition Plan with Door Schedule
Reflected Ceiling Plan
Finish Plan and Millwork Elevations
Semester Assignment – Group Project

Schematic Design                              5 points
Design Development                            5 points
Construction Documents                        25 points
  Partition Plan
  Reflected Ceiling Plan
  Finish Plan
  Millwork Elevations and Details
  Door and Glazing Schedule

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.

Option 2:
Create a documentation guide listing all of components of schematic, design development and 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 assignment or partner (two students) assignment for a maximum of 5 points.
Grading Scale

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

<table>
<thead>
<tr>
<th>Score</th>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>97-100</td>
<td>A+</td>
<td>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.</td>
</tr>
<tr>
<td>93-96</td>
<td>A</td>
<td>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.</td>
</tr>
<tr>
<td>90-92</td>
<td>A-</td>
<td>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.</td>
</tr>
<tr>
<td>87-89</td>
<td>B+</td>
<td>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.</td>
</tr>
<tr>
<td>83-86</td>
<td>B</td>
<td>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.</td>
</tr>
<tr>
<td>77-79</td>
<td>C+</td>
<td></td>
</tr>
<tr>
<td>73-76</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>67-69</td>
<td>D+</td>
<td></td>
</tr>
<tr>
<td>63-66</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>59 and below</td>
<td>F</td>
<td></td>
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</tbody>
</table>

59 and below = F
Timeline

Course Sequence:

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

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topics, Readings, Assignments, Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>08/24</td>
<td>Introduction of class and review of syllabus/Lecture 1</td>
</tr>
<tr>
<td></td>
<td>08/26</td>
<td>Lecture 2/ Warm up Assignment Assigned</td>
</tr>
<tr>
<td>2</td>
<td>08/31</td>
<td>GUEST LECTURE – Drafting Principles/ Review of Revit Resources</td>
</tr>
<tr>
<td></td>
<td>09/02</td>
<td>Exam 1/ Warm up Assignment due/Lecture 3</td>
</tr>
<tr>
<td>3</td>
<td>09/07</td>
<td>LABOR DAY</td>
</tr>
<tr>
<td></td>
<td>09/09</td>
<td>Exam 2/Lecture 4</td>
</tr>
<tr>
<td>4</td>
<td>09/14</td>
<td>GUEST LECTURE – Ceilings / Assign Student Lectures</td>
</tr>
<tr>
<td></td>
<td>09/16</td>
<td>Exam 3/ Lecture 5</td>
</tr>
<tr>
<td>5</td>
<td>09/21</td>
<td>GUEST LECTURE – Doors/ Assign Semester Individual Assignment</td>
</tr>
<tr>
<td></td>
<td>09/23</td>
<td>Exam 4/ Student Lecture 1</td>
</tr>
<tr>
<td>6</td>
<td>09/28</td>
<td>Student Lecture 2/ Working Session</td>
</tr>
<tr>
<td></td>
<td>09/30</td>
<td>Exam 5/ Student Lecture 3</td>
</tr>
<tr>
<td>7</td>
<td>10/05</td>
<td>Semester Individual Assignment Pricing Plan Due</td>
</tr>
<tr>
<td></td>
<td>10/07</td>
<td>Student Lecture 4/ Assign Semester Individual Assignment Construction Documents</td>
</tr>
<tr>
<td>8</td>
<td>10/12</td>
<td>Student Lecture 5/ Working Session</td>
</tr>
<tr>
<td></td>
<td>10/14</td>
<td>Semester Individual Assignment Partition Plan with Door Schedule/ Working Session</td>
</tr>
<tr>
<td>9</td>
<td>10/19</td>
<td>Semester Individual Assignment Reflected Ceiling Plan Due/ Working Session</td>
</tr>
<tr>
<td></td>
<td>10/21</td>
<td>Semester Individual Assignment Finish Plan and Millwork Elevations Due/ Working Session</td>
</tr>
<tr>
<td>Week</td>
<td>Date</td>
<td>Topics, Readings, Assignments, Deadlines</td>
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</tr>
<tr>
<td>10</td>
<td>10/26</td>
<td>Working Session/ Assign Semester Group Assignment Schematic</td>
</tr>
<tr>
<td>10</td>
<td>10/28</td>
<td>Semester Individual Assignment Construction Documents Due</td>
</tr>
<tr>
<td>11</td>
<td>11/02</td>
<td>Review of Semester Group Assignment Schematic Setup/ Working Session</td>
</tr>
<tr>
<td>11</td>
<td>11/04</td>
<td>Semester Group Assignment Schematic Due/ Assign Semester Group Assignment Design Development</td>
</tr>
<tr>
<td>12</td>
<td>11/09</td>
<td>Review of Semester Group Assignment Design Development Setup/ Working Session</td>
</tr>
<tr>
<td>12</td>
<td>11/11</td>
<td>Semester Group Assignment Design Development Due/ Assign Semester Group Assignment Construction Documents</td>
</tr>
<tr>
<td>13</td>
<td>11/16</td>
<td>Review of Semester Group Assignment Construction Documents Setup/ Working Session</td>
</tr>
<tr>
<td>13</td>
<td>11/18</td>
<td>Semester Assignment Partition Plan Due/ Working Session</td>
</tr>
<tr>
<td>14</td>
<td>11/23</td>
<td>Semester Group Assignment – Reflected Ceiling Plan Due/ Working Session</td>
</tr>
<tr>
<td>14</td>
<td>11/25</td>
<td>Semester Group Assignment – Finish Plan Due/ Working Session</td>
</tr>
<tr>
<td>15</td>
<td>11/30</td>
<td>Semester Group Assignment – Millwork Elevations and Details Due/ Working Session</td>
</tr>
<tr>
<td>15</td>
<td>12/02</td>
<td>Semester Group Assignment – Door and Glazing Schedule Due/ Individual Consultations</td>
</tr>
<tr>
<td>16</td>
<td>12/07</td>
<td>Final review of Semester Group Assignment</td>
</tr>
<tr>
<td>Final Exam</td>
<td>12/14</td>
<td>Semester Group Assignment CDs Due – Final!</td>
</tr>
</tbody>
</table>
Resources

Texts/Readings

Required:


CourseSmart: http://www.coursesmart.com/IR/5903928/9781118024645?__hdv=6.8

And

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


CourseSmart: http://www.coursesmart.com/IR/5903928/9780470190418?__hdv=6.8

Optional:


CourseSmart: http://www.coursesmart.com/IR/5903928/9780470445440?__hdv=6.8

Amazon:
http://www.amazon.com/Interior-Construction-Detailing-Designers-Architects/dp/1591261058/ref=sr_1_2?keywords=Interior+Construction%26Detailing+for+Designers+and+Architects


Amazon:

CourseSmart: http://www.coursesmart.com/IR/5903928/9781118862856?__hdv=6.8


Amazon:


Amazon:


Amazon:
http://www.amazon.com/Professional-Practice-Designers-Christine-Piotrowski/dp/1118090799/ref=sr_sp-att_title_1_1?keywords=Professional+Practice+for+Interior+Designers

CourseSmart: http://www.coursesmart.com/IR/5903928/9780471760863?__hdv=6.8
Construction and Detailing for Interior Design (Portfolio Skills), by Drew Plunkett, ISBN-10: 1856696898

Amazon: http://www.amazon.com/Construction-Detailing-Interior-Design-Portfolio/dp/1856696898/ref=sr_1_1?ie=UTF8&qid=1407773411&sr=8-1&keywords=construction+and+detailing+for+interior+design

CourseSmart: http://www.coursesmart.com/IR/5903928/9781856697682?__hdv=6.8


CourseSmart: http://instructors.coursesmart.com/9780470228470

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


Amazon: http://www.amazon.com/SEND-People-Email-Better-Vintage/dp/030727599X/ref=sr_sp-aff_title_1_1?ie=UTF8&qid=1402327663&sr=8-1&keywords=SEND%3A+Why+People+Email+So+Badly+and+How+to+Do+It+Better

Note that Kindle or other electronic versions of textbooks are acceptable but note that visuals might not be legible depending on the device you are using to read.
Software

**Autodesk Revit Architecture 2015**
Can be downloaded for free at http://www.autodesk.com/education/free-software/all

**USE ONLY REVIT 2015, IT IS CRUCIAL THAT WE ALL USE THE SAME PLATFORM!**

PDF converter software (to enable you to print to PDF)
Options, please share additional resources if you have them:
CutePDF www.cutepdf.com
PDF Creator http://sourceforge.net/projects/pdfcreator/

Equipment/Tools

Notebook (you are required to take pen-to-paper notes in class)
Flash (USB) drive large enough to back up all your work

Online Resources

Autodesk Revit 2015 Help:

Autodesk BIM Library:
http://seek.autodesk.com/

RevitCity Component Library:

National BIM Library:
http://www.nationalbimlibrary.com/?gclid=CNy9zvWP7b4CFURqfgodmJlAsw

Professional Organizations Calendars

IIDA North California Chapter http://www.iidanc.org/
ASID North California Chapter http://asidcalnorth.com/news-events/
AIA Santa Clara Valley Chapter http://aiascvym.site-ym.com/events/event_list.asp
USGBC North California Chapter http://www.usgbc-ncc.org/index.php?option=com_events&task=calendar&Itemid=208

Library Liaison

Rebecca Feind 408.808.2007
Associate Librarian, Dr. Martin Luther King. Jr. Library
Liaison to Art and Design
San Jose State University
Course Protocols and University Policies

Course Requirements and Assignments

SJSU classes are designed such that in order to be successful, it is expected that students will spend a minimum of forty-five hours for each unit of credit (normally three hours per unit per week), including preparing for class, participating in course activities, completing assignments, and so on. More details about student workload can be found in University Policy S12-3 at http://www.sjsu.edu/senate/docs/S12-3.pdf.

NOTE that University policy F69-24 at http://www.sjsu.edu/senate/docs/F69-24.pdf states that “Students should attend all meetings of their classes, not only because they are responsible for material discussed therein, but because active participation is frequently essential to ensure maximum benefit for all members of the class. Attendance per se shall not be used as a criterion for grading.

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

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. See University Policy S90–5 at http://www.sjsu.edu/senate/docs/S90-5.pdf. More detailed information on a variety of related topics is available in the SJSU catalog at http://info.sjsu.edu/web-dbgen/narr/catalog/rec-12234.12506.html. 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 serve to address the issue, it is recommended that the student contact the Department Chair as a next step.

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester’s Catalog Policies section at http://info.sjsu.edu/static/catalog/policies.html. Add/drop deadlines can be found on the current academic year calendars document on the Academic Calendars webpage at http://www.sjsu.edu/provost/services/academic_calendars/. The Late Drop Policy is available at http://www.sjsu.edu/aars/policies/latedrops/policy/. Students should be aware of the current deadlines and penalties for dropping classes.

Information about the latest changes and news is available at the Advising Hub at http://www.sjsu.edu/advising/.

Consent for Recording of Class and Public Sharing of Instructor Material

University Policy S12-7, http://www.sjsu.edu/senate/docs/S12-7.pdf, requires students to obtain instructor’s permission to record the course and the following items to be included in the syllabus:

- “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.”
- “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.”
**Academic integrity**

Your commitment, as a student, to learning is evidenced by your enrollment at San Jose State University. The **University Academic Integrity Policy S07-2** at http://www.sjsu.edu/senate/docs/S07-2.pdf requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The Student Conduct and Ethical Development website is available at http://www.sjsu.edu/studentconduct/.

**Campus Policy in Compliance with the American Disabilities Act**

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. **Presidential Directive 97-03** at http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf requires that students with disabilities requesting accommodations must register with the Accessible Education Center (AEC) at http://www.sjsu.edu/aec to establish a record of their disability.