Syllabus Spring 2016

**how**
explore, passage, transfer, waiting, actuate, fly about, get about, get around, go about, mill around, mobilize, move around, set off, travel, wander, driving, excursion, flying, tractor, movement, navigation, ride, boating, sightseeing, tour, transit, trek, trip, biking, commutation, passage, ramble, touring, voyage, weekend, trains, planes, globe-trotting, communication, overnight, expedition, inquiry, freight, reconnaissance, search, study, float, barges, trucks, tour, passive, active ...

**here**
prairie, mississippi, ohio, lakes, swamp, rivers, grain, coal, fruit, soybeans, corn, big muddy, cache, french, history, trading, floods, little Egypt, coal, bluffs, forest, roads, power, mills, beans, oil, shoes, lights, fish, native americans, war, capital, recreation, protected, turkeys, wetlands, birds, bottomlands, epa, world wildlife, wine, anthropology, forestry, geography, geology, microbiology, plant biology, plant, soil & agricultural systems, zoology, science, agricultural sciences, liberal arts, engineering, eco-systems, landscape, spinach...

**place**
Southern Illinois Ecology Center
*humans and their environment*

Instructor: Shannon Sanders McDonald, AIA
Office: 137 Quigley Hours: MWF 11:00 a.m. - 12:00 a.m. or by appt.
Telephone: 618-453-1126  cell: 618-303-6449 (emergencies only)
Email: smcdonald@siu.edu
This document supplements the ARC_452 overall syllabus and this information is part of the requirements for the studio. The studio Desire2Learn web site will also have other handouts and communications posted. Stay on top of E-mail and the Desire2Learn web site.

Course Objectives:
Upon completion of this course, the student will:
1. Research and present studies, writings and analysis of: the building type, site, program, codes, systems, history, IDP and context.
2. Complete site model by end of the third week of the semester to use to study your architectural ideas.
3. Explore architectural concepts that balance all the issues related to environmental factors that will create a building as close to net-zero energy as possible. Use IESVE to document how your building is energy efficient from early design!
4. Create multiple architectural concepts that explore the relationships of your research, program and ideas to a design solution through plan, section, elevation and details; documented by your research, drawings- free hand and computer, writings, models, movies and any other means to express your architectural ideas.
5. Incorporate structure, systems, lighting, interiors, materials and components into your design concepts.
6. Decide on a schematic design that emphasizes all of the key elements of design and sustainability.
7. Mid-review will require a full schematic design with site study and building models, plans, sections (wall and building), elevations, models and details with sketchbook ready to move into the DD phase.
8. Develop your schematic design exploring and detailing your architectural solution into a DD set.
9. Final-review will include physical site models, physical individual models, IESVE simulation studies and hand and computer generated architectural information on boards; as well any other expression as appropriate.
10. Meet architectural standards for design such as accessibility, life safety, LEED, IESVE Energy Modeling and present all research, analysis and studies from the studio in an 11 x 17 document, with all structural and Environmental III work, with sketchbook as complete documentation for class. Include photos of models. CD must also be submitted with all work from the semester.
11. Create a basic spreadsheet for tracking any professional architectural work that you have participated in and will participate in for NCARB certification.

Supplies/Equipment:
Purchase IESVE by Friday January 29, 2015. All pertinent materials required to work in studio toward meeting deadlines, and reviews, and/or the completing final project. We will be doing large scale studies, models, hand drawings, writing and computer work so be prepared to use all types of materials and forms of expression. MUST HAVE PRINTED OUT DOCUMENTS FOR DESK CRITS AND SOME REVIEWS - HAVE ACCESS TO AN 11 X 17 PRINTER
## CALENDAR

### January

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- **Jan 20**: First day of studio
- **Jan 22**: Sketch problem in class
- **Jan 25**: Passive analysis #1
- **Jan 27**: Site visit
- **Jan 29**: Program research/discuss reading

### February

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- **Feb 5**: Analysis and site model complete
- **Feb 8**: Preliminary conceptual design study models in site study models, concept sketches with initial ideas structure and systems
- **Feb 12**: Developed conceptual design & massing with IESVE simulations #2
- **Feb 22**: Schematic design proposed with IESVE simulations

### March

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march 02 - schematic design pre-presentation for mid-term
march 09 and 11 - mid-term presentations
march 21 - finalized/graduating board
march 23 - preliminary design development

**April**

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April 01 - developed models - interior spaces
April 13 - design development finalized
April 09 - honors day
April 22 - documentation - details, finalized iesve
April 27 - initial presentation + booklet review

**May**

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May 06 - final presentation
May 13 - 1:00 clean up studio, all work hung for review
May 14 - commencement - YES, you did it!!

**Required Books/Program:**

**Required book:**

**Required program:**
IESVE for architects: [http://www.iesve.com/software/download/ve-for-students](http://www.iesve.com/software/download/ve-for-students)

Multiple other books/articles will be suggested during the studio. I also expect that you will research and bring your own books to studio to share with all of us.
Your librarian, Sarah Prindle, is your lifeline for research assistance and development. Her office hours are Mondays 1:00-4:00pm, and Fridays 10:00am-1:00pm in her office (Morris Library 260C). You can contact her anytime with questions or for an appointment at sprindle@lib.siu.edu or 618-453-1249.

McDonald Studio Attendance Policy:

Three (3) late and/or leaving early will equal one absence. Being unprepared for class will also count for one late/leaving early. More than three (3) absences will result in a grade reduction. If you have an emergency or are not able to turn in an assignment or present at the assigned day and time, please contact me by E-mail smcdonald@siu.edu as soon as possible.

Grading:

ASSIGNMENTS’ PERCENTAGES OF TOTAL GRADING

1........................................15 %
2........................................15 %
3........................................70 %

100 %

3 (Feb 22)..................................10%
3 (midterm)..............................20%
3 (April 13)..............................10%
3 (Final).................................40%

See the General ARC452 Syllabus Information as well

What Is An “A”

An “A” indicates work that is exceptional, out of the ordinary, and above and beyond what was required for the project. Hard work does not always yield this. Being in class every day does not always yield this. Three “all nighters” does not always yield this. A grade of “A” means that you have carried one or more aspects of the project to an extent that makes the work superior in a number of dimensions. This can be achieved by consistent hard work the entire semester, developing and doing multiple iterations to complete your design, creating an expansive/detailed project, meeting all deadlines - otherwise doing a fantastic job of being an architect - taking yourself and your work very seriously!!

What Is A “B”

A “B” grade indicates that what you have accomplished is good. It is above average. It is more than required to satisfactorily complete the problem. Being in class every day does not always yield this. Three “all nighters” does not always yield this. Hard work does not always yield this. A grade of “B” indicates that you are going about your project in a way which distinguishes it from the average.
What Is A “C”
A “C” means you have done everything that was expected, you came to class, worked very hard, and generated a response to the problem that was average, acceptable. It does not mean you have failed. It means you have performed in a satisfactory way. Doing a project, working hard does not carry with it the guarantee of satisfactory results. The evaluation of your work will be either inflated or deflated. It will be professional and straightforward. You will be given you the evaluation of your work in the context in which it is done.

What Is A “D” Or An “F”
These grades indicate a substantial lack of understanding and achievement.

Answer the following Questions:
1. Can I work very hard and still attain one of these grades?
2. Can I work three days straight, not sleeping; not working, not attending to personal needs and still attain one of these grades?
3. Can I be in class every day and still attain one of these grades?
4. Can I complete each project requirement and still attain one of these grades?

If you answer “No” to any of these questions you do not understand the grading policy.