

Elizabethtown College Syllabus  
ART/EGR 499A and B  
**Architectural Design Studio I and II**  
(Spring 2015)

J. Wunderlich PhD  
P. Ricci PhD  
Revised: 1/16/2015

## Description

Architectural Design studio course offered every Spring with rotating architectural case studies taught by full-time faculty and visiting Architects. Case studies are repeated no less than every two year so that students in Studio I and Studio II can participate in the same lectures. Independent student design work in Studio I and II is required to be documented in an electronic portfolio; and professional documentation, drawings, and oral defense of architectural designs are required. *Spring semester, Prof. Wunderlich, Ricci, and visiting Architects* Course Credit: 2, 2

## Meeting Times

Wednesday 2:00-3:40pm is the official class time in our Design & Technology-Transfer Studio (E273), however here are specifics on meeting times:

- **2:00-2:55pm** Open studio time in E273 for individual critiques and progress checks
- **2:55-3:40pm** Architectural Lecture
- **3:40-4:25pm** Optional open studio time in E273
- Special meeting times:
  1. **1/28 11:00am** in E273: **teleconference** with U.S. Donor/Client, Harvard Medical School, and officials in the country of Sierra Leone for our **Elizabethtown College designs of 50 Health Clinics for Sierra Leone, Africa**:  
[http://users.etown.edu/w/wunderjt/home\\_student\\_ARCHITECTURE\\_EGR343\\_2014.html](http://users.etown.edu/w/wunderjt/home_student_ARCHITECTURE_EGR343_2014.html)
  2. **TBA: Field Trip to Tait Towers in Lititz** (Professional World-class set designers)
  3. **TBA (Time permitting): Another field trip to an Architectural site**
  4. **4/20** Elizabethtown College's **Don Kraybill** will give his last major public presentation on the Amish (including "Amish Tech" and there Built Environment)
  5. Pick one of the following:
    - **3/19 GreenCon2015** at Franklin & Marshal (*Most applicable choice for this course*)
    - **4/13 7:30pm** in Leffler with **Nicholas Kristof** -- "**Path Appears: Transforming Lives, Creating Opportunity**" (winner of two Pulitzer Prizes)
    - **TBA Wednesday at 11:00am**: Elizabethtown College's **Ambassador John Craig** on his experience as a Boeing Aircraft Vice President, a Venture Capital company CEO, a lead advisor in the White House, and a U.S. Ambassador

## Objectives

1. Architectural design
2. Learn professional architectural standards
3. Learn from architectural case studies
4. Enhance professional presentation skills
5. Enhance creativity

## Faculty

### **Joseph T Wunderlich PhD**

*Associate Professor of Engineering, Architectural Studies Minor Coordinator*

Office: E273

Phone: 717-368-9715

Email: [wunderjt@etown.edu](mailto:wunderjt@etown.edu) Web site: <http://users.etown.edu/w/wunderjt>

Calendar and Office Hours: [http://users.etown.edu/w/wunderjt/schedules/CALENDAR3\\_s15\\_web.htm](http://users.etown.edu/w/wunderjt/schedules/CALENDAR3_s15_web.htm)

### **Patricia L Ricci PhD**

*Associate Professor of the History of Art, Director of the Fine Arts Division*

Office: Steinman, Department of Fine Arts

Phone: 717-361-1517

Email: [riccipl@etown.edu](mailto:riccipl@etown.edu)

## Visiting Architects

May be invited for guest lectures, and to help critique architectural defenses

## Texts, Readings, and Software

- Selected Architectural Case-Studies
- Excerpts from The American Institute of Architects, **Architectural Graphic Standards**, 11th Edition, Wiley & Sons, Inc.; (March 30, 2007). ISBN-13: 978-0471700913 (*Handouts*)
- Wing, Eric, **Autodesk Revit Architecture 2015: No Experience Required: Autodesk Official Press**, 1st Edition, Sybex; (June 3, 2014). ISBN-13: 1118862155
- Revit software (use trial addition available on-line, or software available in E273)

## Grading

- 20% **Assigned Project (Project #1)**
- 5% **Proposal Statement for Semester Project (Project #2)**
- 15% **Feasibility Study and Sketches for Semester Project (Project #2)**
- 25% **Final Poster or PPT Defense (Project #2)**
- 30% **Professional Architectural Portfolio on-line (Project #1 and #2)**
- 5% **Participation and continuous progress**

*EXTRA CREDIT (5% Max) Foam-Board or 3D-Printed Model for Semester Project (Project #2)*

Course Grade:

(60-62)=D-, (63-67)=D, (68-69)=D+, (70-72)=C-, (73-77)=C, (78-79)=C+, (80-82)=B-, (83-87)=B, (88-89)=B+, (90-92)=A-, (93-100)=A  
(with any fractional part rounded to the nearest integer)

## Schedule

Some topics to be included in "TBA" below:

- ["10 Buildings that Changed America"](#) video
- [Siera Leonne Health Clinic Student Designs](#)
- [Campus Wellness Center Phase I Designs](#)
- [Selected Italian Architecture and Urban Design](#)
- Selected Japanese Architecture and Urban Design ([PDF](#), [PPT](#))
- [Trucker Wellness Centers](#)
- [Related Symposiums and Conferences](#)
- [Local residential Architecture](#)
- Crowdsourced Architecture and Environmental Design (Paper [PDF](#), Talk [PDF](#) [PPT](#))
- Frank Lloyd Wright Case Studies

- I. (Week 1) Introduction, and TBA
- II. (Week 2) TBA
- III. (Week 3) TBA
- IV. (Week 4) TBA
- V. (Week 5) TBA
- VI. (Week 6) **(Proposal Statement for Project #2 Due)** and TBA
- VII. (Week 7) TBA
- VIII. (Week 8) **(Feasibility Study and Sketches for Project #2 Due)**
- IX. (Week 9) TBA
- X. (Week 10) TBA
- XI. (Week 11) TBA
- XII. (Week 12) TBA
- XIII. (Week 13) TBA
- XIV. (Week 14) **Project #2 Final Defense on Scholarship Day if selected**
- XV. *EXTRA CREDIT (5% Max) Foam-Board or 3D-Printed Model*
- XVI. (Week 15) **Project #2 Final Defense during class time for those not presenting on Scholarship Day**  
*EXTRA CREDIT (5% Max) Foam-Board or 3D-Printed Model*
- XVII. (Finals Week) **Project #1 and #2 on-line Portfolio Update due Midnight, Sunday, May 10<sup>th</sup>**

## Projects

### **(Due Date TBA) Assigned Project (Project #1)**

A customized assignment will be given.

### **(Week 6 – February 18) Proposal Statement for Semester Project (Project #2)**

**499A:** Email to Dr Wunderlich and Dr. Ricci a paragraph of intended project (thesis statement) including referencing a few existing models that are starting points in the creative process (ex. "I want to design a cantilevered house like Falling Water"). If you have been approved to continue your work from another course, state the specifics.

**499B:** Email to Dr Wunderlich and Dr. Ricci a paragraph of intended project (thesis statement) including referencing a few existing models that are starting points in the creative process (ex. "I want to design a cantilevered house like Falling Water"). If you have been approved to continue on your work from 499A or another course, state the specifics.

### **(March 11) Feasibility Study and Sketches for Semester Project (Project #2)**

Email to Dr Wunderlich and Dr. Ricci preliminary sketches and a feasibility study of materials needed for construction - more than one design for your proposed project to compare alternatives. (at this stage, you may be asked to rethink, and resubmit your design)

## **(April 21 or April 29) Final Defense (Project #2)**

If you are asked to present on Scholarship Day (April 21), email your PPT to Dr Wunderlich and Dr. Ricci at least two hours before your talk. Otherwise, email your poster to Dr. Wunderlich and Dr. Ricci for printing one week before your April 29th in-class defense (*so we have time to print it*). **EXTRA CREDIT (5% Max) Foam-Board or 3D-Printed Model as part of presentation**

## **(Midnight, Sunday, May 10<sup>th</sup>) Professional Architectural Portfolio Update (Project #1 and #2)**

Have your professional electronic portfolio updated before midnight on the last day of Finals week, and email to Dr Wunderlich and Dr Ricci a link to your portfolio. Include as many sketches and drawings as possible from the semester (site plan, elevations, floor plans, cross-sections, and detail-drawings of particularly note-worthy architectural features). Also include narrative of noteworthy architectural details and specifications from both Project #1 and #2. LEED Checksheet and Detailed engineering calculations are optional.

## Expectations for presentations

- **BE AS VISUAL AS POSSIBLE**
- **Minimize unnecessary details**
- **A picture is worth a thousand words !**
- Less than 30 words per slide on PowerPoints, and make sure poster images and text can be viewed by two rows of seated audience
- Ensure good contrast between text and background (will the lights be on?)
- Put an image on every PowerPoint page (clip-art, photo, animation) it may sometimes be an abstraction of the subject
- Don't read from script or speak monotonically
- Make eye contact with audience
- Have a clear objective ( to sell design, to motivate, or to report findings)
- Have a good opener (an agenda, a quotation, a question, or a declaration)
- Be organized and logical (present problem then solution; or have priorities – least-to-most or most-to-least)
- Have audience's expectations understood (provide meaning and/or motivation)
- Have good transitions between main points
- Have a good closing (summarize main ideas, restate purpose of presentation)
- Be flexible (adapt if questions are asked during presentation)

## Recommended Revit Software Tutorials

- PART 1 Basic Use** <https://www.youtube.com/watch?v=IHynUsUZDv8>
- PART 2 Floor plan** <https://www.youtube.com/watch?v=WQxZ0ZTXkIQ>
- PART 3 Grid & Columns** <https://www.youtube.com/watch?v=i098Ky4WBmY>
- PART 4 Stairs** <https://www.youtube.com/watch?v=32slxVXz16M>
- PART 5 Annotation** <https://www.youtube.com/watch?v=PUk1VoyNNtQ>
- PART 6 Bringing at together** <https://www.youtube.com/watch?v=kak7Zccq3ek>
- PART 7 Rendering** [https://www.youtube.com/watch?v=Bo\\_32kDpbw4](https://www.youtube.com/watch?v=Bo_32kDpbw4)

## Other Revit Software Tutorials (Collected by students in [EGR343 Green Architectural Engineering](#) )

- <https://www.youtube.com/watch?v=k9FH1V9bVIA&index=1&list=PL666EBDCBBF08117A>
- <http://www.youtube.com/watch?v=WQxZ0ZTXkIQ>
- <http://www.youtube.com/watch?v=00Uo8gIc1YU>
- <http://www.youtube.com/watch?v=IhC0erXDAjU>
- [https://www.youtube.com/watch?feature=player\\_detailpage&v=DxTxjuqn3DI](https://www.youtube.com/watch?feature=player_detailpage&v=DxTxjuqn3DI)
- <https://www.youtube.com/watch?v=GJD0q3QUMag>
- <https://www.youtube.com/watch?v=IHynUsUZDv8>
- <http://www.youtube.com/watch?v=QGSnVZwiXs>
- <http://www.youtube.com/watch?v=TUg6LNIOVxM>
- <http://www.youtube.com/watch?v=psjyh9XTToCs>
- <http://www.youtube.com/watch?v=5vGCniht8BE>
- <http://www.youtube.com/watch?v=RNIPdNKZ4FQ>
- <https://www.youtube.com/watch?v=9LnXiCjMwMM>
- <https://www.youtube.com/watch?v=v5BJDz6Cg>
- <https://www.youtube.com/watch?v=eCSIBYEJrNM>
- <https://www.youtube.com/watch?v=Oc5NHEN6-OQ>
- <http://www.youtube.com/watch?v=IhC0erXDAjU>
- <https://www.youtube.com/watch?v=rzsZ-CnkVnl>
- <https://www.youtube.com/watch?v=cq0Vx4-8nrl>

## Disabilities

Elizabethtown College welcomes students with disabilities to participate in all of its courses, programs, and activities. If you have a documented disability and require accommodations to access course material, activities, or requirements, you must: (1) Contact the Director of Disability Services, Lynne Davies, in the Center for Student Success, BSC 228, by phone (361-1227) or email [daviesl@etown.edu](mailto:daviesl@etown.edu); and (2) Meet with the instructor within two weeks of receiving a copy of the accommodation letter from Disability Services to discuss your accommodation needs and their implementation.

## Academic Honesty

Elizabethtown College Pledge of Integrity: "Elizabethtown College is a community engaged in a living and learning experience, the foundation of which is mutual trust and respect. Therefore, we will strive to behave toward one another with respect for the rights of others, and we promise to represent as our work only that which is indeed our own, refraining from all forms of lying, plagiarizing, and cheating."