ARCH 4770/6770: Introduction To Craft (ITC)
Class meeting times and location: Tue/Thur, 4:00-6:00
Cigar Factory, 701 East Bay Street, Suite 135, Charleston, SC 29403
Instructor: David Pastre
Office: Cigar Factory, 701 East Bay Street, Suite 202, Charleston, SC 29403
Office hours: by appointment
Phone: (843)-696-3343
Email: pastre@clemson.edu

I. Course Description:
Architectural craft lab offered under different material specializations, all of which introduce students to design as informed by craft through a hands-on lab. Basic craft operations and material properties are introduced for the subject material (wood, steel, etc.) May be repeated for a maximum of six credits.

This spring, the course will introduce students to the discipline of craft using woodworking as a medium. It seeks to instill a craftsman’s approach to construction and a corresponding reconsideration of design.

II. Course Objectives and Learning Outcomes:
The purpose of ITC is to teach basic shop and tool safety at the level of mastery.

• To teach a rigorous approach to making that yields material excellence at the level of capability. Skills necessary to this endeavor include: patience, planning, the understanding of tolerance in materials and tools, a process that includes testing and mock-ups, and knowing the limits and capabilities of tools and materials.

• To teach design as informed by craft at the level of exposure. Skills necessary to this endeavor include stylistic prowess, the ability to translate theory to form, the application of an iterative design process, and the modification of concept according to material experiment

III. General Education Cross-Cultural Awareness:
The course objectives include developing the ability to critically compare and contrast world cultures in historical and/or contemporary contexts through the pre-design research, site research and analysis exploring physical, cultural, demographic and economic contexts of the project, analysis and design of a use-program with diverse user needs being considered, and the situating of the project within global architectural production past and present as shown in the conceptual approach.

IV. NAAB Student Performance Criteria:
The School of Architecture’s educational mission is guided by the National Architectural Accrediting Board’s Conditions and Student Performance Criteria, which include goals for knowledge and abilities in the areas of (Realm A) Critical Thinking and Representation; (Realm B) Integrated Building Practices, Technical Skills and Knowledge; and (Realm C) Leadership and Practice. NAAB defines understanding as the “capacity to classify, compare, summarize, explain
and/or interpret information” and ability as “proficiency in using specific information to accomplish a task, correctly selecting the appropriate information, and accurately applying it to the solution of a specific problem, while also distinguishing the effects of its implementation.”

The NAAB student performance criteria that all sections of ARCH 6770 must provide evidence of are:

A.2 Design Thinking Skills: Ability to raise clear and precise questions, use abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test alternative outcomes against relevant criteria and standard.

A.3 Investigative Skills: Ability to gather, assess, record, and comparatively evaluate relevant information and performance in order to support conclusions related to a specific project or assignment.

B.4 Technical Documentation: Ability to make technically clear drawings, prepare outline specifications, and construct models illustrating and identifying the assembly of materials, systems, and components appropriate for a building design.

**V. Course Materials:**

Required Text(s):

Lectures and discussions will draw heavily on material from these primary references. The below-mentioned books are available in the CAC library. It is not required to purchase text for this class, but it is encouraged.


Other materials and supplies required for class:

Students are required to supply their own hand tools and project materials. All tools are to be of professional quality. Where models and manufacturers have been specified below, substitutions are subject to approval by the Professor. To request a substitution, present the actual tool to the Professor for inspection prior to the second class.

The cost of quality tools is substantial, but will be a lifelong investment. Good craftsmanship requires good tools. Any student experiencing a serious financial hardship is encouraged to speak with the Professor privately about his or her needs. Materials are listed below:
**Personal Safety Equipment**

1 — NIOSH-approved wood dust respirator with interchangeable filters or several similarly rated disposable filter masks

*Eye and ear protection is provided and available by the CACC.*

**Personal Hand Tools**

1 — retractable measuring tape 16’-25’ (Stanley or approved equal)
1 — pocket caliper (4” minimum)
1 — pocket square (Starrett, Stanley, or approved equal)
1 — utility knife with snap-off blades (Stanley, Olfa, or approved equal)
1 — dozen No. 2 wood pencils (Dixon, Ticonderoga, or approved equal)

*Mechanical pencils and pens may not be used for shop layout in this course.*

1 — woodshop apron

*All tools should be labeled with the owner’s name. Acceptable forms of labeling include permanent marker, adhesive labeling tape, and engraving.*

**Materials**

Materials required for in-class projects will be announced one week before they are needed. Space in the shop is very limited. Students may not store any materials, tools, or other personal property in the shop without the written consent of the Professor.

**Vendors**

Charleston has many tool and material vendors. Instead of relying solely on the mega home centers as they so often do, students are encouraged to seek out specialty vendors and the building supply yards that deal primarily with the trade. The several listed below have been chosen for their proximity, helpfulness, and material selection.

**Hughes Lumber and Building Supply:** 82 Mary Street, Charleston, SC 29403 (Downtown) 577-6671. Hughes Lumber is a complete building supply located between King and Meeting Streets near the Visitor’s Center. Besides having everything you need to build a house, it has a great tool selection, and it is probably the best hardware store in the metropolitan area. The staff is generally quite helpful, just be ready to ask to see what’s out back in the wood shed. They’ve got a bigger selection than Lowe’s, and their prices are competitive.

**Southern Lumber and Millwork:** 2031 King Street, Charleston, SC 29405 (The Neck) 744-6281. Southern lumber is a major supplier to the builders in the area. They are only a few miles up King Street from the CAC. They have a good selection of common and specialty woods used construction, such as southern yellow pine, poplar, cypress, western red cedar, ipe, Spanish cedar, Brazilian cherry, and others. Unfortunately the staff is not as helpful as those at Hughes and Woodcraft – they may be a bit gruff if you show up there late on a Friday afternoon. However, don’t get discouraged, their proximity and selection will make your trip worthwhile.

**Wurth Woodgroup:** 4325 Leer Ave, North Charleston, SC 29418 (North Charleston) 529-0808. They have a wide selection of plywood and solid wood as well as specialty and cabinet hardware.
VI. Assessment of Student Performance and Grading Policies:
The grading system is as follows:
A—Excellent indicates work of a very high character, the highest grade given.
B—Good indicates work that is definitely above average, though not of the highest quality.
C—Fair indicates work of average or medium character.
D—Pass indicates work below average and unsatisfactory, the lowest passing grade. (undergraduates only)
F— Failed indicates that the student knows so little of the subject that it must be repeated in order that credit can be received. I—Incomplete indicates that a relatively small part of the semester’s work remains undone. Grade I is not given a student who made a grade F on his/her daily work. The incomplete grade is calculated as an F in the student’s grade-point average until the work is made up and a final grade is assigned. Instructors and students will resolve the Incomplete grade as soon as possible, but not to exceed thirty days from the first day of classes in the next scheduled session (excluding summer sessions and regardless of the student’s enrollment status). Students will contact instructors in a timely manner so that instructors can provide a reasonable opportunity to complete remaining work. Normally, only one extension for each I may be granted, and this under unusual circumstances. The extension must be submitted by the instructor of the course and will indicate the time limit. (Students under this policy are prohibited from removing the I by repeating the course.) A letter grade of I converts to F unless the incomplete is removed within the time specified.
W—Withdraw indicates that the student withdrew from the course or was withdrawn by the instructor after the first two weeks of classwork and prior to the last five weeks of classes, not including the examination period. Proportionate time periods apply during summer and other shortened sessions. For financial aid purposes, enrollment is defined and satisfactory academic progress levels are established as of midnight on the last day to drop without a W grade. Withdrawal can negatively impact financial aid eligibility if a student does not complete a sufficient number of hours. Details are available at [www.clemson.edu/finaid](http://www.clemson.edu/finaid).

P—Pass or NP— No Pass indicate a student has either passed or not passed a course approved to be taken as Pass/No Pass only. Students are not permitted to optionally take a letter-graded course as Pass/No Pass.

VII. Academic Integrity and Other Policies:
“As members of the Clemson University community, we have inherited Thomas Green Clemson’s vision of this institution as a ‘high seminary of learning.’ Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form.”
All work submitted for a grade must be your own, unless group work is assigned. All text included in assignments that was written by someone other than the student must be correctly quoted and cited.

Learning Culture Policy:
The Learning Culture Policy presents guidelines for working together in the School of Architecture. See http://www.clemson.edu/caah/departments/architecture/files/files-about/Learning%20Culture.pdf

House Rules:
“House Rules” indicate that students shall not spray paint or use spray glue indoors, and shall not spray any exterior surfaces, including grass and plants. Use a drop cloth. Students shall not otherwise damage buildings or facilities and may be fined for doing so.

Clean Up and Clean Out
Students shall maintain cleanliness, dispose of their waste properly, and shall remove all belongings after final exams and/or final reviews.

VIII. Class Attendance, Late Professor, and Late Work Policies:
College work proceeds at such a pace that regular attendance is necessary for each student to obtain maximum benefits for instruction. Regular and punctual attendance at all class and laboratory sessions is a student obligation, and each student is responsible for all the work, including tests and written work, in all class and laboratory sessions. No right or privilege exists that permits a student to be absent from any given number of class or laboratory sessions except as stated in the syllabus for each course. At the same time, it is obvious that at times students have valid reasons for missing classes. The instructors are expected to be reasonable in the demands they place on students. Refer to Clemson University’s Undergraduate Announcements for additional information.

If a student fails to complete/submit a required class assignment/project due to a documented excused absence, the professor will determine a date and time when the assignment/project will be submitted and/or presented. There will be no penalty for such delay upon satisfactory review of the documented excuse. In the event of an unexcused absence on the date an assignment/project is due, the professor reserves the right to lower the grade evaluation for the assignment/project by up to one full grade point assuming the work is eventually completed. If a student is unable to complete an assignment/project to an acceptable level of completion (determined solely by the professor) at the time and date required, the professor reserves the right to lower the grade evaluation for the assignment/project by up to one full grade point.

IX. Email, Electronic Devise, and Technical Failure Policies
Please check your Clemson email address at least once a day for potential messages dealing with this course. Do not forward your Clemson mail to another account (Yahoo, AOL, etc.) as those accounts tend to have issues like full in-boxes and limitations on attachments.
X. Accommodations for Students with Disabilities
It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities. Students are encouraged to contact Student Disability Services to discuss their individual needs for accommodation.

Students are encouraged to consult with the Disability Services staff early in the semester, preferably prior to the first day of class. Current documentation of a specific disability from a licensed professional is needed. Additional information or appointments are available from Student Disability Services, G-23 Redfern Health Center, 656-6848. Details on policies and procedures are available at www.clemson.edu/asc

XI. Sexual Harassment Statement
The Clemson University Title IX (Sexual Harassment) statement: Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran's status, genetic information or protected activity (e.g., opposition to prohibited discrimination or participation in any complaint process, etc.) in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972. The policy is located at http://www.clemson.edu/campus-life/campus-services/access/non-discriminationpolicy.html. Jerry Knighton serves as Clemson's Title IX coordinator and he may be reached at knightl@clemson.edu or 656-3181.

XII. Topical Outline and Schedule
Regular classes are held Tuesdays from 4:00-6:00 and Thursdays from 4:00-6:00. Shop safety meetings and maintenance sessions may be convened outside regular class times:

1. Safety certifications will be held during the first week of classes (see schedule below).
2. There will be a Saturday field trip.
3. ITC students will take the mid-term exam.
4. All students enrolled in ITC are required to attend the ITC final reviews.

**Week 1**
- Thursday, 12 January  
  Introduction to wood I

**Week 2**
- Tuesday, 17 January  
  Introduction to wood II
- Thursday, 19 January  
  Tool Certification

**Week 3**
- Tuesday, 24 January  
  Tool Certification
- Thursday, 26 January  
  Tool Certification

**Week 4**
Clemson University School of Architecture
Clemson Design Center in Charleston
Spring 2017

Tuesday, 31 January
Joinery (Miter/Spline)
Thursday, 2 February
Joinery (Finger Joint)

Week 5
Tuesday, 7 February
Joinery (Through Dovetail)
Thursday, 9 February
Joinery (Through Dovetail)

Week 6
Tuesday, 14 February
Film (Objectified)/Reading Assignment 1/Project 1 Intro
Thursday, 16 February
Midterm Exam/Project 1 Studio

Week 7
Tuesday, 21 February
Project 1 Studio
Thursday, 23 February
Project 1 Studio/Discuss Reading Assignment 1

Week 8
Tuesday, 28 February
Project 1 Shop
Thursday, 2 March
Project 1 Shop/Turn in Writing Assignment 1

Week 9
Tuesday, 7 March
Project 1 Shop
Thursday, 9 March
Project 1 Shop

Week 10
Tuesday, 14 March
Project 1 Shop
Thursday, 16 March
Project 1 Shop

Week 11
Tuesday, 21 March
Spring Break (no class)
Thursday, 23 March
Spring Break (no class)

Week 12
Tuesday, 28 March
Project 1 Review
Thursday, 30 March
Project 2 Shop/Reading Assignment 2

Week 13
Tuesday, 4 April
Project 2 Shop
Thursday, 6 April
Project 2 Shop / Turn in Writing Assignment 2

Week 14
Tuesday, 11 April
Project 2 Shop
Thursday, 13 April
Project 2 Shop

Week 15
Tuesday, 18 April
Project 2 Shop
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<tr>
<th>Date</th>
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<tr>
<td>Thursday, 20 April</td>
<td>Project 2 Shop</td>
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<tr>
<td><strong>Week 16</strong></td>
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<tr>
<td>Thursday, 25 April</td>
<td>Project 2 Shop</td>
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<td>Friday, 27 April</td>
<td>Project 2 Documentation (Last day of Class)</td>
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<td><strong>Week 17</strong></td>
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<td>Tuesday, 2 May</td>
<td>ITC Review</td>
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<td>Friday, 5 May</td>
<td><em>Digital Documentation Due</em></td>
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