

Construction Technology Strategic Plan
Revised 3/07

Mission Statement:

The Construction Technology program (CT) at College of the Redwoods delivers quality hands-on training of fine furniture/cabinet making, construction, and historic preservation technologies. All classes within the program direct course objectives toward the focus of “hands-on” technology dovetailed with academic rigor.

Program Outcomes:

Students completing the Construction Technology degree will be proficient in the following competencies:

- Survey of Construction Industry
- Material Sciences
- Hands-on Carpentry, Cabinetmaking & Millwork, and Historic Preservation
- Hands-on labs for tool/equipment use, safety and maintenance
- Introduction of Construction Theory and Methods
- New residential design and construction
- Sustainable building principals
- Introduction of Historic Preservation and Restoration Theory and Methods
- Historic structures - rehabilitation
- Building Codes and Code Enforcement
- Construction Safety, Quality Control and Environmental Compliance
- Project Estimation
- Project Planning and Management
- Time and cost budgets
- Technical writing, mathematics, and communications
- Community Service

Short-term Goals

1. Prepare NAIT self study

Timeline: Due by March 30, 2007

Responsible person: CT faculty with leadership from Steve Brown

Fiscal Impact: None

Plan & Status: Completed and delivered April 2, 2007

2. Write 07/08 VTEA proposal

Timeline: Due April 11, 2007

Responsible person: CT faculty

Fiscal Impact: expect \$15-20K

Plan & Status: RFQ received and project is being documented.

3. Involve students in community project based learning

Timeline: 03/04, 05/06, & 06/07 academic years

Responsible persons: Ted Stodder, Paul Kinsey, Bill Hole
Fiscal Impact: Lot, building supplies, & equipment provided by Habitat for Humanity and Rotary
Plan & Status: Evergreen lodge and 05/06 Habitat house complete. 06/07 Habitat house in progress. In Fall '03, instead of building a student project house, the students will partner with Eureka Rotary to build an annex to the Evergreen Lodge, a facility that is used by the families of cancer patients in local hospitals. This will expose students to the building community and demonstrate collaboration between our CT program and local trades professionals while at the same time providing a community service.
CR is partnering with Humboldt Habitat for Humanity to build 2 homes on lots owned by HHFH during 05/06 and 05/07 academic years.

4. Provide improved instructional technology in AT109

Timeline: 04/05 academic year
Responsible person: Paul Kinsey
Fiscal Impact: PLE grant
Plan & Status: Create an instructional delivery system in the AT109 that will allow Internet access and digital delivery of information using LCD projector on overhead screen. Further technology improvements will be the inclusion of computer software design package for teaching cabinetmaking and design. Using a digital camera to record student project completion will be another procedure made available by this setup. Internet access, projector, and C.P.U. installed Fall, 2004. Digital format being used successfully per goals. Project is complete.

5. Conduct graduate follow-up study

Timeline: Mar 07
Responsible person: CT faculty with leadership by Steve Brown
Fiscal Impact: none
Plan & Status: Surveys coming in for tabulation, results to be shared with advisory committee at spring meeting

6. Organize NAIT team visit

Timeline: April 07
Responsible person: All FT CT faculty
Fiscal Impact: food costs covered by president's office
Plan & Status: in progress. Facilities requests for Lakeview Room, AT126E. Restaurant reservations, notify interviewees, request students and advisory committee members to attend lunch.

Long-term Goals

1. Maintain NAIT Accreditation for DT degree

Plan: Pursue resolutions to deficiencies noted in self-study and team response. Develop a response to the visiting team recommendations. Create a timeline to develop a report if requested by the NAIT Board of Accreditation.
Responsible person: CT Full time faculty

Fiscal Impact: travel to NAIT conference
Status: TBD

2. Develop and implement an improved student follow-up system

Plan: Work with college IR office to develop and implement the follow-up system for graduates and program leavers. Define the responsibility of faculty and administration in the process. Use the data from follow-up studies to make curricular and programmatic as necessary.

Responsible person: Steve Brown with CT faculty

Fiscal Impact: postage

Status: In progress – graduate survey completed, leaver survey pending

3. Upgrade ventilation and dust recovery systems

Responsible person: All FT faculty

Fiscal Impact: District maintenance and Measure Q funds

Status: Interim solution completed, Measure Q project pending

Background: Upgrade AT 109 construction technology shop facility with new ventilation and dust recovery systems to evacuate dust and particles directly from machines and equipment. New manifolds, hoses, and portable vacuum systems will be installed, and eventually, a new hard-line ventilation recovery unit will be installed outside shop to replace original system. During March 2003, new manifolds and hoses were installed on various machines. Design plans are currently being developed to incorporate new ventilation recovery unit. Funding is the next step in the process. During Fall 2004 faculty developed plan and confirmed Measure Q funding to remodel/retrofit A.T. 109 (Construction Technology lab) to include ventilation system upgrades, and new ventilation systems. Work on this plan (locally known as “Measure Q” Bond) has slowed or stalled due to local and state-level issues.

4. Ensure that each degree continues to reflect the needs of contemporary industry

Plan: Continue to work with the advisory committee and professional organizations to ensure validity of curriculum and responsiveness to industry needs. Pursue faculty development opportunities and funding.

Responsible person: Full time CT faculty

Fiscal Impact: None

Status: This is a perpetual process and is continuing. Fall '04 Establishment of Cabinetmaking Advisory Committee. Ongoing membership associations with:

- Humboldt Builder's Exchange
- International Preservation Trade's Network
- National Council for Preservation Education

Ongoing: professional growth and training by dept. faculty in residential design, construction and codes, sustainable building practices, as well as preservation of historic structures

5. Seek funding for technology, staff development, and facilities enhancement

Plan: Pursue funding opportunities through VTEA, Partnership For Excellence, Tech Prep, CR Foundation, NSF, and other agencies when appropriate. Schedule of cyclical replacement and maintenance of equipment/tools fundamental to program needs.

Responsible person: CT faculty

Fiscal Impact: endless

Status: Currently receiving funding from VTEA, PFE, Faculty Development, and Tech Prep. New VTEA plan written 4/07. Successful PFE grants received both 2006 and 2007; Faculty Development grants both 2005 and 2006.

6. Continue to develop Historic Preservation (HPRT) degree goals and courses that will draw a full audience of students from local and out-of-region locations, to provide a successful and sought after hands-on training program.

Plan: Continue web page development, marketing efforts, and classroom development to meet the needs of program goals.

Current Status: DVD film produced in Fall 2006 to market all eleven HPRT courses. Based on instructor participation in New Orleans workshop training in Fall 2006, six students from Brooklyn High School of Arts have submitted applications to begin CR in Fall 2007. Development of new program information fliers and recruitment materials for Construction Technology and Historic Preservation: 2006.

7. Develop summer field studies courses to teach hands-on Historic Preservation through project based learning on live project, which will draw graduate level students from out of region, along with current degree-oriented local students

Plan: Develop courses through community education department to facilitate short-term, fee-based training. Students will be able to lodge at the College dormitory facilities

Current Status: Summer 2006 – Faculty member went to New Orleans to teach workshop on building restoration of church floor system devastated by Hurricane Katrina to help develop strategies for local field school success. Fall 2006 began a Field School site in Eureka, restoring an 1892 house and utilizing all HPRT course students, along with Drafting Technology students and Electrical Wiring students to learn by doing. County planning department employees, graduate architect student, and local home inspectors are some of current students.

Work is continuing and summer workshop is planned for 2007 to restore original lathe and plaster walls.