

Drafting Technology Strategic Plan

Revised 3/07

Mission Statement:

The Drafting Technology program is committed to providing the opportunity for students to become productive members of our community through a curriculum of challenging technical and general education courses.

Program Outcomes:

Architectural:

The Drafting Technology Department has developed curriculum, based on advice from industry, to prepare our graduates for careers as successful architectural drafters. In preparing to function as contributing members of a design team, drafting students learn to:

- Produce design documentation to industry standards using Computer-Aided Drafting (CAD software) and technical sketching.
- Develop complete architectural plans with consideration for aesthetics, cost, methods of construction, building codes, and common industrial practices.
- Develop realistic static and animated visualizations of designs.
- Work in design teams.
- Communicate effectively, both written and oral.

Civil Design:

The Drafting Technology Department has developed curriculum, based on advice from industry, to prepare our graduates for careers as successful civil drafters. In preparing to function as contributing members of a design team, drafting students learn to:

- Produce design documentation to industry standards using Computer-Aided Drafting (CAD software) and technical sketching.
- Develop profiles and cross sections, land subdivisions, site and grading plans, and basic earthwork calculations with correct interpretation of survey data.
- Develop maps and technical drawings related to transportation, hydrology, and utilities.
- Use surveying instrumentation and GIS/GPS systems.
- Develop realistic static and animated visualizations of designs.
- Work in design teams.
- Communicate effectively, both written and oral.

Mechanical:

The Drafting Technology Department has developed curriculum, based on advice from industry, to prepare our graduates for careers as successful mechanical drafters. In preparing to function as contributing members of a design team, drafting students learn to:

- Produce design documentation to industry standards using Computer-Aided Drafting (CAD software) and technical sketching.
- Apply precision tolerancing, geometric dimensioning & tolerancing, and materials & process design criteria to their designs.
- Model mechanical design concepts in 3D using the latest solid-modeling software.
- Develop realistic static and animated visualizations of designs.
- Work in design teams.
- Produce rapid prototyped parts using 3D printing
- Communicate effectively, both written and oral.

Short-term Goals

1. Prepare NAIT self study

Timeline: Due by March 30, 2007

Responsible person: Steve Brown

Fiscal Impact: None

Plan & Status: Completed and delivered April 2, 2007

2. Update course outlines for all DT courses to new format.

Timeline: Due to CC before Nov 06 for inclusion in new catalog

Responsible person: Steve Brown

Fiscal Impact: None

Plan & Status: Completed and approved by Board

3. Revise DT degrees to reflect blended disciplines as recommended by advisory committee.

Timeline: Due to CC before Nov 06 for inclusion in new catalog

Responsible person: Steve Brown

Fiscal Impact: None

Plan & Status: Completed and approved by Board

4. Develop collaborative degree programs with HSU

Timeline: 06/07 academic year

Responsible person: Steve Brown and Mark Doggett (HSU)

Fiscal Impact: None

Plan & Status: The required HSU curriculum revisions are complete and the development of an updated articulation agreement is pending

Background: The HSU Industrial Technology department is meeting with CR faculty and others to develop several new degree patterns, including 2 degrees that can be completed partially at CR and the balance at HSU. CR faculty are excited about this prospect and are working to ensure the success of the plan. The result will be a clear educational pathway for our students that desire to continue their education, but would otherwise have to leave the area.

5. Write 07/08 VTEA proposal

Timeline: Due April 11, 2007

Responsible person: Steve Brown

Fiscal Impact: expect \$15-20K

Plan & Status: RFQ has been received. Preparation of proposal is in progress and will include staff development (NAIT and Autodesk), software updates for Autodesk, and a desktop 3D laser scanner.

6. Purchase Autodesk ADI

Timeline: Due Mar 30, 2007

Responsible person: Steve Brown

Fiscal Impact: \$8K from 06/07 VTEA

Plan & Status: PO submitted 3/15/07

7. Conduct graduate follow-up study

Timeline: Mar 07

Responsible person: Steve Brown

Fiscal Impact: none

Plan & Status: Surveys coming in for tabulation, results will be shared at next advisory committee meeting.

8. Schedule advisory committee meeting

Timeline: Schedule for mid-may

Responsible person: Steve Brown

Fiscal Impact: none

Plan & Status: invitations will go out May 1

9. Organize NAIT team visit

Timeline: April 07

Responsible person: Steve Brown

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: Steve Brown
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
Fiscal Impact: postage
Status: In progress – graduate survey completed, leaver survey pending
- 3. 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: Steve Brown
Fiscal Impact: None
Status: In progress
- 4. 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. Develop a prioritized list of equipment for new technologies and a schedule of replacement for existing technologies (lab computers and software, primarily).
Responsible person: Steve Brown
Fiscal Impact: endless
Status: In progress