



Napa Valley College  
Career Technical Education  
Program Advisory Committee Meeting Minutes



Digital Design Graphics Technology

Minutes for the meeting on: 5/22/2019

Taken by: Gary Strommen and Jim Kisiel

Meeting Minutes:

1. 6:00 Introductions (2 minutes)  
**Introductions held promptly at start of meeting, 6pm. Dennis Anderson, Senior Survey Tech. from Chaudhary & Associates was new in attendance as a guest and may become a new regular member of the Advisory Committee. Sid Chaudhary, Gary Strommen, and Jim Kisiel were in attendance.**
2. Meeting Minutes Approval (2 minute)  
**Meeting minutes from the Fall 2018 advisory committee meeting approved.**
3. Autodesk / ThinkEDU Authorized Training Center (ATC) Compliance Status (0 minutes)
  - a. Nothing new at this time.
4. 6:10 Enrollment / Marketing Updates (10 minutes)
  - a. In Spring of 2018, Gary went and visited most of the local high schools and gave presentations on the DDGT program. Gary talked with around 400 students in pathways related to DDGT. No students enrolled that presented to enrolled in the Fall. In Spring of 2019, Gary decided not to present to the local high schools and see how Fall enrollment ends up. Regardless of the results, Gary is planning on presenting to the local high schools again Spring 2020.
  - b. Summer 2019 course offering:
    - i. DDGT130 Summer Boot Camp
  - c. Fall 2019 Class offerings (classes begin August 13<sup>th</sup>):
    - i. DDGT110 – Technical Drawing Fundamentals
    - ii. DDGT120 – DDGT1
    - iii. DDGT240 – DDGT3

d. A two-year schedule has been asked of all campus programs. Here is the tentative schedule:

- FIRST YEAR – FALL:
  - DDGT110 - Technical Drawing Fundamentals
  - DDGT120 – Digital Design Graphics Technology 1
  - DDGT240 – Digital Design Graphics Technology 3
- FIRST YEAR – SPRING:
  - DDGT110 - Technical Drawing Fundamentals
  - DDGT121 – Digital Design Graphics Technology 2
  - DDGT130 – Intro to 3D Printing
  - DDGT241 – Digital Design Graphics Technology 4
- SECOND YEAR – FALL:
  - DDGT110 - Technical Drawing Fundamentals
  - DDGT120 – Digital Design Graphics Technology 1
  - DDGT230 – Digital Architectural Drafting & Design 1
  - DDGT240 – Digital Design Graphics Technology 3
- SECOND YEAR – SPRING:
  - DDGT110 - Technical Drawing Fundamentals
  - DDGT121 – Digital Design Graphics Technology 2
  - DDGT130 – Intro to 3D Printing
  - DDGT231 – Digital Architectural Drafting & Design 2
  - DDGT241 – Digital Design Graphics Technology 4
- This will be revised as additional classes are added.

**Local High School instructors and Gary have decided to have Spring presentations at their respective locations offered every other year instead of annually. Gary will go and present again Spring 2020.**

**Summer Bootcamp 2019 is scheduled for June 10 – 27<sup>th</sup>.**

**Fall 2019 course offerings are set to a minimum but will increase Fall 2020.**

**NVC has requested a two-year cycle of class offerings. A tentative schedule has been submitted (as seen above) but will need to be revised as new courses are added. There are a minimum of three new courses planned on being added to the program over the next academic year including courses on 3D Scanning, Augmented Reality, and Digital Graphics. These courses will be offered once every other year in a two-year cycle.**

5. Articulation Updates (5 minutes)

- a. There are articulation agreements in place with Napa High and St. Helena High Schools. Gary has been told that there are students planning on taking the exam at the end of this semester but there are no further details at this time.

**There is currently one student who has requested to take the exam for college credit. Results to follow.**

6. Curriculum Updates (10 minutes)

- a. Submission to Curriculum for 2018-2019:

- i. Phase I: Completed

- DDGT110, 120, 121, 240, 241 courses have been updated, approved, and implemented.
- DDGT130 has been approved and is being offered for the first time this summer.

- ii. Phase II: Close to completion

- DDGT230 Digital Architectural Drafting 1 - Updated and approved
- DDGT231 Digital Architectural Drafting 2 – Updated and approved
- DDGT AS Degree – Updated and approved
- DDGT Certificate of Achievement – Updated and approved
- Architectural Certificate of Achievement Update - Last step of approval
- Mechanical Certificate of Achievement Update – Last step of approval

- iii. Phase III: Next Priority Fall 2019

- Intro to Technical Graphics (name in progress)
- Intro to 3D Scanning (to include Civil 3D)
- DDGT110 as a purely online course.
- 
- Certificate around advanced technology courses (DDGT130 3D Printing, 3D Scanning, Technical Illustration) (After all new courses have been created)

- **Over the last several years, all existing DDGT courses have been revised and updated.**
- **All existing DDGT Degrees / Certificates have been revised and updated.**
- **DDGT130 Intro to 3D Printing has been created.**
- **Two new Certificates of Achievement have been created:**
  - **Architectural Certificate of Achievement Update**
  - **Mechanical Certificate of Achievement Update**
- **Over the next academic year, we plan on creating additional courses on 3D Scanning, Augmented Reality, Digital Graphics and create curriculum to offer courses in a 100% purely online environment. These courses were approved by all members of the committee.**

7. 6:35 DDGT Program objectives that have been accomplished in the current / previous semester (5 minutes)
  - a. Curriculum Updates
  - b. Equipment Upgrades (will discuss in item 9)

**Curriculum updates previously mentioned in Item #6.**

**Equipment upgrades will be noted in Item #9.**

8. DDGT Program objectives for the upcoming academic semester (5 minutes)
  - a. Curriculum: Creation of new courses as previously mentioned
  - b. Increase Advisory Committee with additional members of the community in other industries outside of Civil and Architectural to more roundly represent the DDGT curriculum.
  - c. Additional research on 3D Scanning, AR technologies, and Drone Technology with specific equipment selected and priced and how it can be incorporated into existing courses and new courses.

**Curriculum previously mentioned in Item #6.**

**Dennis Anderson, Senior Survey Tech. from Chaudhary & Associates was new in attendance and may become a new regular member of the Advisory Committee. Dennis brings with him industry level experience specifically with Point Cloud Data Analysis, scanning, surveying, and other Civil related skills.**

**Gary plans on reaching out to Cinquini & Passarino, Inc (They also do 3D Scanning, Data Analysis, and Civil Design) to see if they would be interested in joining the Advisory Committee.**

9. Equipment Status (5 minutes)
  - a. Equipment Upgrades – 3D Scanners, DDGT Server, 3d Printer Bath, Mice and Keyboards, Augmented Reality (Waiting for Microsoft's release)
  - b. Additional Equipment Needs:
    - i. Additional Computers (to have 20 in each room)
    - ii. New Projectors Upgrades

**Equipment Upgrades. In the Spring of 2019, we have received the following:**

- **New 3D Space Pilots, CAD Mice, and Mechanical Keyboards for one computer lab.**
- **New 3D Bath for the current 3D Printer. This is larger to accommodate the larger build platform of the current 3D printer.**
- **New Windows Server (to be installed over summer) to replace outdated server that Microsoft no longer supports.**

- We have been approved to purchase 2 Microsoft HoloLens v2.0 once they are available. They are currently so new, that you cannot preorder yet but you cannot purchase v1.0 either as they have become discontinued.
- Audio / Video upgrades have been researched and determined. Waiting for budget to become available.
- Still requesting enough new computers to augment existing setup to allow 20 usable computers in each room. Currently we have 32 divided between the two classrooms.

10. DDGT Department Financial Requests for Growth (5 minutes)

- Request for funding annual Autodesk Training Center (ATC) license agreement requirements
  - Autodesk License Renewal (VOTE) @\$6500 - **APPROVED**
  - Autodesk Certified Instructor (ACI) Renewal (VOTE) @\$2000 - **APPROVED**
  - Autodesk Instructor Certified Professional exam renewals (VOTE) @\$800 (\$160 for each exam) - **APPROVED**
- Request for funding Ascent annual license for courseware printing
  - Ascent License Renewal (VOTE) @\$6500 - **APPROVED**
- Request funding for Drone equipment to train students for industry needs. (VOTE) (cost unknown at this time)
- Request for funding for additional lab computers to support increased enrollment and additional course offerings. (VOTE) - **APPROVED**

**All committee members approved all the requested funds with the exception to Item #C on drone technology; however, it was recommended to research further and find actual costs and requirements. Dean works for Chaudhary & Associates and does data collection with drones. Dean is also a graduate of the DDGT program. Dean may be a resource for drone technology curriculum in the future.**

11. Special Announcement: (0 minutes)

- No special announcements at this time.

12. Industry trends / Public Comments / Round Table (10 minutes)

- What needs do you see in the industry that we should be training for?
  - Dennis recommend reaching out to Jeremy Miller of Santa Rosa Junior College regarding his curriculum on 3D Scanning. Additionally, Dennis recommended researching how to make our curriculum transferable to UC (as it is currently only transferable to CSU).
  - Sid described how Survey is shrinking, GPS has increased, and 3D Scanning is increasing and is the future.
  - Dennis pointed out how there are multiple disciplines utilizing 3D Scanning. I might want to create Curriculum for different paths, such as:

- 3D Scanning for Civil
- 3D Scanning for Architectural
- Any instructor in the program will eventually need to meet several criteria for Autodesk:
  - All instructors need to pass the Certified Professional exam for the products they teach on.
  - All instructors in the program must attain Autodesk Certified Instructor (ACI) Certification by the end of Jan 31<sup>st</sup>, 2021.
- Chaudhary & Associates use Lyca 3D Scanners and the Cyclone software interface. We plan on using our Trimble 3D Scanners with the Realworks software interface. The important thing is that students become familiar with the process, not necessarily specific devices / software.
- It was recommended by Sid and Dennis to modularize the new 3D Scanning / Civil curriculum.
  - Step 1: Prerequisite: AutoCAD (DDGT110 or DDGT120)
  - Step 2: Civil 3D course
    - Including Autodesk Civil 3D Fundamentals
    - Teaching students how to utilize NAT83 (using a real world coordinate system)
  - Step 3: 3D Scanning course
    - Curriculum could include scanning the NVC campus inside and outside over time. Each semester can add a few buildings.
    - Sid offered to locate or place “markers” on the NVC campus that tie into the NAT83 real world coordinate system to support this curriculum.