



Surveying Advisory Board Meeting Agenda

Thursday, June 15, 2023, from 4:30-6pm
Cuyamaca College E-106

Committee Members: Don Wooley, Sean Squire, Edward Brisendine, Lena Heckbert, Charlene Alsbaugh, Monica Rosas, Dr. Keenan Murray, Amanda Jones, Jose Luis Baylon, Richard Coffman, Sheri Pointer, Jonh Butcher, Dave Olander

1. Introductions and welcome

D. Wooley welcomed committee at 4:41 pm
Introductions by board members

- Amanda Jones, 5 field cruise, been surveying since she was a child
- Jose Luis Baylon, Birds Eye Aerial Drones (BEAD) GIS Manager
- Sheri Pointer, Co-Founder of Birds Eye Aerial Drones (BEAD). She wants to know more about the program and will hire surveyors soon.

2. Facility Tour and Tools Showcase skipped due to time constraints

3. Proposed new 12-unit (4 course) certificate for General Land Surveying

D. Wooley provided an overview of the surveying courses offered at Cuyamaca College: fundamentals, calibrate levels, station and offset “topography”, how important documentation is, spoke about [Trimble](#) donating a **drone** to the program

S. Squire added that class 218 required surveying students to take the CADD class. He mentioned this class tends to be a large class as it is heavy with engineering students

Faculty went on sharing that 220 class is legals class and it touches on laser scanner and GPS

S. Square the 3 courses are held on Saturday

J. Butcher mentioned that when he taught, they had 100 % placement

E. Brisendine: 240 is where all field work is done; 220 is where they learn about grounds **book** and boundaries

S. Painter inquired about the hours of lecture

D. Wooley and S. Squire mentioned it depends on the day of the class. Sometimes it's 3 hours in the field and 3 classwork

K. Murray mentioned if there is a need for something in the catalog to be edited, he can assist

E. Brisendine : something about TVC and OPUS (?)

D. Olander: all field equipment is critical they take triple axis data with feature coding then goes to civil 3D

E. Brisendine for the 220 class [carlson survey licenses](#)

D. Wooley mentioned they have connections with “LEICA”

K. Murray asked if there was anything missing from the 3 courses shared

D. Olander mentioned he did not see “foot units” in the course description



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To which E. Brisendine answered its in the advance class

D. Olander went on saying that students need to be aware of realizations and geophysicist knowledge

(?)

S. Squire said they do go over coordinates not too deep about epics and title

C. Alsbaugh asked about adding certificates of specialization like in the Water Studies department

E. Brisandine mentioned there is a minimum for specializations and C. Alsbaugh explained how many units are needed for specialization, and other certificates

K. Murray asked what was more important CADD or Data Processing for the 4th class?

J. Butcher mentioned a basic officer you need 218, 240 (epics and titles),

S. Squire can they do CADD online? At night?

K. Murray waiving pre request due to experience (CPL)

J. Butcher mentioned waivers create an issue

C. Albaugh explained there will be guidelines to proof student has the requirements to earn CPL

D. Olander ____ and statistics equipment. Students don't understand "currents". Their equipment is more unit based. Book engineering mathematics he recommends. It has statistical info. Not seeing angles but residuals. We need to be able to understand info from data collectors and data software. He was involved in establishing their scanning program (at CALTRANS). His understanding of physics helped but not needed in entry level

D. Olander shared that for a rounded surveyor they need some physics knowledge. GNSS Observations and RTK survey. Not a fan of a black box approaches. Most hire level survey firms,

E Brisdane, when he teaches, he has the assignments and crews use equipment (use robot or "TK"),

Ed: do they know coding

S. Squire if there is a way to do CADD online or at night? That would be amazing

Semester 1: CADD

Semester 2: Survey Drafting / Coding

K Murray explained its like a *Catch 22*, industry needs "surveyors" and not enough student #

J. Butcher math, CADD 127 and 150 can be online

Professor Bill can teach it

J. Butcher, you must be flexible in adjusting classes

S. Squire a specialized certificate is perfect to work in industry

D. Wooley statistics class could be mixed w data processing – more geared to surveying

S. Pointer shared light, rover, RTK tat sets control points. They use pix 40. They have hired mostly from Community Colleges like GC and SWC

JL Baylon, shared about the Palomar Survey program and how great they are doing

D. Olander, mentioned 1/3 of office does data extraction. He shared 3 factors to make a great employee
aero survey (could be an elective or extra class)

K. Murray will reach out to GC Drone Program

S/ Squire, suggested it would be beneficial if the drone program could be co-pollinated

JL Balon shared he is a TA at SWC he can provide the groundwork for a class

S. Painter said they work with Grossmont College and that 107 drone class can be just a class not an entire course



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- a. Currently, students complete around 3 courses and are hired into the field. This creates issues for college funding, as it is tied to metrics like graduation rates (degrees / certificates.)
- b. Creating a shorter-term certificate allows students to jump into the workforce as soon as possible, while ensuring sustained program funding (improved completion metrics.)
- 4. Are the courses that make up the current degree program relevant still?**
 - a. Current Associate's degree has 2 CADD courses.
 - b. Please see email attachments for current [course descriptions](#).
- 5. Proposed Course Creation: Survey Data Processing**
 - a. Trimble Business Center
 - b. What software is being used in the field?
- 6. Roundtable & Next Steps**
 - a. Clarify action items and ownership for next meeting
- 7. Next Scheduled Meeting:** Include Date/Time
K. Murray thanked the group and asked when we should meet again in the Fall – all advisors agreed to meet on the second Thursday of October at 5pm.