

Bellingham Technical College
Advisory Committee
Fall Meeting Minutes

Program: Instrumentation and Control

Committee Chair: Tony Shockey

Meeting Date/Time/Location: 23OCT2018, 6:30 PM, DMC 130

Members Present: Tony Shockey, Bill Stuckey, Richard Horne

Faculty Present: Tony Kuphaldt, Matt Ziels

Student Present: Kyle Morris (Note-taker)

Meeting Called to Order: 6:31pm

Meeting Adjourned: 7:50pm

Agenda Topic: Welcome and Introductions

Discussion Summary:

Meeting Announcement Lead time -- ~3 months

Recommendations and/or voting items:

Agenda Topic: Approval of the Previous Meeting's Minutes

Discussion Summary:

Recommendations and/or voting items:

Minutes -- Approved

Agenda Topic: Committee Member Updates

Discussion Summary:

Tony S. - Fluke Corporation

- Increase in wireless, thermography, and predictive instrumentation
- Imaging of gases through thermal imaging
- Tony K question: changing role of an instrument tech with "big data" and tools?
 - Build out use cases for "big data"
 - Technician application of "big data" to determine root causes
 - Creating synthetic baselines with smarter technology
- Job Forecast:
 - Sales and Marketing High
 - Technical knowhow always needed
 - Building technical demos and hands on applications

Richard H. - Williams Pipeline

- Cybersecurity - Hot topic
- Job Forecast:
 - Hiring for non-local jobs

Bill S. - Anvil

- PLC replacement
 - Old units have reached EoL - replacing with newer units
 - Some wireless - avoided for vitals, preferred for maintenance
- Job Forecast:
 - Currently slow

Agenda Topic: Program Report

Discussion Summary:

- Staffing changes:
 - New Instructor: Matt Ziels
 - Instructor Departure: Bobby Yost
 - New Dean: Ray Kubista
- Three current instructors
 - Tony K.
 - Matt Z.
 - Dave S.
- Not enough instructors for 2 cohorts
 - Current plan: flip-flop a 2nd year instructor for 1.5 cohorts/2 years
 - Possibility to return to 4 instructors
 - Focus on quality graduates
- Possibility for a complete overhaul of the first year curriculum
- Current student enrollment:
 - 25 first year
 - 33 second year
 - 2 graduating DEC2018
 - 10 graduating MAR2019
 - 21 graduating JUN2019
- Education for non-program students
 - More Avil employees likely to take INST 250 in JAN2019
 - Room for more Anvil in spring quarter
 - Contract training at Andeavor/Marathon refinery in the summer
- Job placement:
 - JUN2018 - 60% hired in the field, 40% no contact
 - MAR2018 - 7/12 confirmed, 5 no contact
- Recruitment (inbound):
 - Icicle Foods
 - Shell Pipeline
 - AECOM
 - Barron Heating
- Job Shadows & Internships
 - Spring break 2018:
 - (4) City of Bellingham

- (6) NAES cogen power plant in Ferndale
 - (2) Williams Pipeline in Sumas & Mount Vernon
 - (2) WSU Extension Center lab in Mount Vernon
- Summer Break 2018:
 - (2) BP Cherry Point refinery
 - (8) City of Bellingham
 - (1) Williams Pipeline in Sumas
 - (1) Kenny Electric in Denver, CO
- Grand Coulee Dam Tour
- Instructional Developments
 - New TROUBLESHOOT computer software
 - Simulates faults in circuits and records steps taken for review with an instructor
 - First year curriculum plan:
 - Q1 - focus on DC electronics and simple semiconductors
 - Q2 - focus on AC and additional simple semiconductors
 - Q3 - focus on analog and logic systems (analog semiconductors, digital gates, PLCs, and motor controls)
 - Less focus on analog circuit theory, more focus on circuit fundamentals, electric power, and troubleshooting
 - Open source materials (no purchased textbooks)
- Donation requests:
 - None currently

Agenda Topic: Dean's Report

Agenda Topic: Student Report

Discussion Summary:

- Continually building on fundamentals
- Inverted format allows students to target the areas where their understanding is weak
- Students transitioning from 1st to 2nd year appreciate having advanced students for help

Agenda Topic: Next Meeting Date

Discussion Summary:

- Tentatively scheduled for Thursday 16MAY2018, 11am - 1:30pm

Agenda topic: Survey Outreach

Discussion Summary:

- Email inboxes are inundated with emails
- Surveys should be short (~10 questions)
- Emails direct from instructors are more likely to be answered

Meeting Adjourned at 7:50pm