

## CE Program Advisory Committee Meeting Construction Technology

**April 16, 2021**  
**Zoom Virtual Meeting Room**  
**Meeting Convened at 6:00 p.m.**  
**Meeting Adjourned at 8:05 p.m.**  
**Facilitator: Oscar Ortiz**

<u>COMMITTEE MEMBERS</u>	<u>EX-OFFICIO</u>
David Appel, Inspector, City of Santa Ana Dennis Bishop, Bishop Realty Dennis Bogle, Building Official, City of Laguna Beach Tony Borkowski, Senior Estimator, Tangram Interiors Eric DeCrescenzo, Salesman, Catalina Pacific Concrete Duane Jennrich, Instructor, Coastline ROP, Estancia Brad Oien, Sales Engineer, Thompson Pipe Group John Puckett, Lead Construction Training Supervisor, Hope Builders Russ Worthington, Project Liaison, The Irvine Company	Elaine Devlin, K-14 Career Pathways Coordinator, Career Education, OCC Zach Gonzales, Staff, OCC Lisa Knuppel, Dean, CE, Interim Dean, Business and Computing Matt Macarewich, Faculty, OCC Oscar Ortiz, Faculty, OCC Max Pena, Faculty, OCC Tim Peters, Faculty, OCC Daniel Shrader, Dean of Technology, OCC Darrell Urbien, Faculty, OCC

### ADVISORY COMMITTEE MEETING SUMMARY

#### 1. Welcome & Introductions

- Committee members introduced themselves and confirmed their respective titles and roles at their respective companies.
- Max Pena reviewed the role and responsibilities of this meeting as follows:
  - Review and access the structure, program-level outcomes and curriculum of the Construction Technology Program;
  - Ratify and recommend changes to program structure, PSLOs and curriculum so that the program and curriculum align to stated occupational outcomes and industry needs and requirements.
- The committee reviewed and ratified the notes from the last committee meeting.

#### 2. Program Outcome Data

- **Reviewed and ratified existing low-unit certificates and Program Level Student Learning Outcomes (PLOs)**
  - Carpentry:
    - Students who successfully complete this program will be able to install windows and doors in a building.
    - Students who successfully complete this program will be able to install interior and exterior finishes in a building.
  - Concrete & Masonry:

- Demonstrate the knowledge, skills and experience to identify, assess, and participate in many entry-level construction trades.
- Be prepared to work in the construction field in positions including, but not limited to work areas such as inspection, management, and as hands-on skilled tradespeople.
- Construction Technology:
  - Demonstrate the knowledge, skills and experience to identify, assess, and participate in many entry-level construction trades.
  - Be prepared to work in the construction field in positions including, but not limited to work areas such as inspection, and hands-on skilled tradespeople.
- Fine Woodworking:
  - Be prepared for a position or career in the fine woodworking and affiliated trade.
- Master Construction Specialist:
  - Demonstrate the knowledge, skills and experience to identify, assess, and participate in many entry-level construction trades.
  - Be prepared to work in the construction field in positions including, but not limited to work areas such as inspection, and hands-on skilled tradespeople.
- Plumbing:
  - Demonstrate the knowledge, skills and experience to identify, assess, and participate in many entry-level construction trades.
  - Be prepared to work in the construction field in positions including, but not limited to work areas such as inspection, and hands-on skilled tradespeople.
- Residential Construction Development First Award:
  - Demonstrate the knowledge, skills and experience to identify, assess, and participate in many entry-level construction trades.
  - Be prepared to work in the construction field in positions including, but not limited to work areas such as inspection, and hands-on skilled tradespeople.
- Residential Construction Development Second Award:
  - Demonstrate the knowledge, skills and experience to identify, assess, and participate in many entry-level construction trades.
  - Be prepared to work in the construction field in positions including, but not limited to work areas such as inspection, and hands-on skilled tradespeople.
- Residential Construction Development Third Award:
  - Demonstrate the knowledge, skills and experience to identify, assess, and participate in many entry-level construction trades.
  - Be prepared to work in the construction field in positions including, but not limited to work areas such as inspection, and hands-on skilled tradespeople.
- Residential Electrical:
  - Demonstrate the knowledge, skills and experience to identify, assess, and participate in many entry-level construction trades.
  - Be prepared to work in the construction field in positions including, but not limited to work areas such as inspection, and hands-on skilled tradespeople.
- **Biennial Program Review** (Attachment)
  - Committee reviewed occupation/job titles and codes and wage information; Committee ratified the removal of the following job/occupational outcomes (titles):
    - Electrical and Electronics Engineering Technicians
    - Septic Tank Servicers and Sewer Pipe Cleaners
  - \$19.30 to live in Orange County with a roommate and pay all living expenses
  - The committee noted that the prevailing wages for a carpenter has changed and the wages are higher than the chart indicates. Carpenters start at \$17.50 with the union in Orange County at this time.
  - On a whole, the report shows we have a very healthy program regarding employment and occupation growth.
  - OCC is giving out a lot of certificates

- Enrollment and Completer Status and Trends
  - For the most part an upward trend in enrollment and completers
  - Check on subsequent numbers to see if a downward trend continues from 2019. In general, the numbers look fine since there was an upward trend since 2016.
- New BR report coming out this year
- **Licensure/certification exam pass rates:** (N/A)
- **Employment Outcome Data**
  - Institution Set Standard

Institution Set Standard (%)	Job Placement Rate (%)			
	2016	2017	2018	2019
75%	55.56	76.92	78.57	67.74

- **Perkins Program Core Indicators** (Attachment)
  - Perkins Core Indicators used for Perkins funding in regards to special populations
  - Low in head count of students, but the numbers show on the Biennial Review
    - Data shows enrollment on the BR and insufficient data on the Perkins
    - Lisa, Max and Oscar will need to have a discussion to find the hitch and fix this internal data reporting collection problem as far as the Perkins data
  - 2020 cohort had an achievement issue/ achievement issue needs to increase especially with economically disadvantaged students.
  - Committee needs to meet again to address and make suggestions for improvements to support our economically disadvantaged students in recruitment, instruction/ retention.
  - Students that finish the program are getting jobs.

### 3. **Review of Last Advisory Committee Recommendations and Progress Report**

Last Meeting Date: November 1, 2019

- The Committee approved all proposed changes to existing courses, certificates/degrees, and programs.
- They also approved Steve Lee's proposed Internet of Things for the Smart Grid Certificate so we can track students ourselves.
- The Committee approved recommendations to assist economically disadvantaged students.
- The Committee suggested creating a student database that could automatically track success outside of transfers, certificates, and degrees.
- It was recommended by Steve to the Committee to meet more than once a year, and this was unanimously agreed upon.

### 4. **Review of New Program Proposals/Developments**

- Curriculum
  - Low Unit Certificates Approved as Certificates of Achievement
    - Concrete & Masonry
    - Carpentry Certification
    - Plumbing & Electrical Certification
    - Fine Woodworking
  - Changing the name of Residential Development Certificate to Building Construction
  - Retiring the Residential Development 2<sup>nd</sup> and 3<sup>rd</sup> Awards
  - Offering new certificates/AS degrees in Construction Management and Construction Inspection
  - Reduction of units in the proposed Master Construction Specialist certificate was requested by the department
    - Decreased units on the original proposal of 59 units to 46 units by removing cabinet making and other advanced courses from the certificate

- Add finished carpentry to the certificate
- Reviewed and discussed the approvals of the Construction Technology Certificate
  - CNST A241 “Finish Carpentry” was added as a required course.
  - CNST A240 “Specialty Trades” was added as an option/choice (students pick one) along with CNST A180 “Building Construction 1.”
  - CNST A189 “Blueprint Reading” was added as an option/choice (students pick one) along with CNST A190 “Blueprint Reading and Drafting.”
- Carpentry Certification change: CNST A154 “Drywall and Taping” was added as a required class
- Plumbing and Electrical change: CNST A189 “Blueprint Reading” added as an option to CNST A190 “Blueprint Reading and Drafting”
- Some online classes in the following format are working well while others are not:
  - Hybrid Courses
  - Flexible Lecture Instruction
  - Adding advisory support for online lectures
- Committee agreed to give instructors the option to do alternate forms of teaching to include online, hybrid or flexible instruction.
- Tim Peters is making changes from a traditional wood working program
  - Offering new courses in composite fabrication
  - Substituting CNST A241 for cabinet making in Master Construction Certificate
  - Significantly different program
- Equipment/Facilities
  - The program received some of the tools and equipment it needed.
    - New one-yard concrete mixer
  - Committee supports addition of new equipment

## 5. **Work-Based Learning Opportunities**

- Overview of existing work-based learning elements of program and gaps or needs
- Advisor recommendations and referrals for new internships or apprenticeship opportunities
  - Contractors calling our program for workers of all levels
  - Working with Thao Ho in the Career Education (C.E.) to share that information with OCC students

## 6. **Industry Update & Employment Trends**

- Emerging technologies and industry developments impacting instructional programs
  - Everyone is using Electronics and technology/ iPads in the field
  - Blue Beam being used a lot in the field, and it can be done in real time
- **Industry** hiring practices and trends
  - Need for cost estimators
  - Contractors listing jobs through Thao Ho in C.E.

## 7. **Summary of Recommendations**

- New or Revision of Curriculum/Classes or Program Structure
  - Changing the name of Residential Development Certificate to Building Construction
  - Retiring the Residential Development 2<sup>nd</sup> and 3<sup>rd</sup> Awards
  - New certificates in Construction Management and Construction Inspection
  - Committee agreed to give instructors the option to do alternate forms of teaching to include online, hybrid or flexible instruction.
  - New Certificate in Composite Fabrication is incorporating changes in traditional woodworking program
    - Offering new courses in composite fabrication
    - Cross disciplinary courses
    - Goal to make OCC cutting edge with testing to build certification in aircraft

- Substituting CNST A241 for cabinet making in Master Construction Certificate
- New program is basic training plus (expanded program)
- Fine Woodworking Certificate of Specialization should be converted to a Certificate of Achievement and all currently enrolled students will be given the opportunity to complete the certificate, New program in Composite Fabrication will eventually replace Woodworking, which will be retired.
- Steve Lee is expanding courses offerings dealing with Smart Grid
- Reduction of units in the Master Construction Specialist Certificate
  - Decreased units in the original proposal of 59 units to 46 units
  - 46 units will get approval
  - Cabinet making was removed from the certificate
  - Add finished carpentry to the certificate
  - May trim down a few more courses such as building codes
  - 42 units of program units in a certificate is the ideal for a program because it leaves room for 18 GE units for a total of 60 units (need to remain under 60 program units)
  - Get units down as low as possible while retaining a fully rounded program
- Add a fabricator instructor
- Replace faculty members that have retired as soon as the campus allows that
- Future classes/certificates
  - Tile Installation Course
  - Heavy equipment operation: don't have the equipment
  - Surveying for builders
    - Thinking of a 1 or 2 unit summer class
    - Bring in someone to teach the course that uses the latest techniques
- New Equipment/Technology
  - Add equipment and technology to be utilized by various classes
  - Replace equipment as needed
- Other recommendations for program improvement
  - Add a software class (Technology and Construction) with lessons on the drone into the program
  - Bluebeam is technology students must be made aware of to keep on the cutting edge. May be able to introduce bluebeam into the curriculum of Construction Management.
  - Create a student database that could automatically track success outside of transfers, certificates, and degrees.

## 8. Closing Remarks

Max thanked the committee for participating in this year's Advisory Committee Meeting and introduced Zach Gonzales, our new I.A.