Workforce Development featuring Tiny House Village and Solar Installer Program
Tiny House Village

Instructional Innovations in the Building Trades

Presented by:
Ryan Connally - Department Chair Building Trades
Jason Ellis - Architecture Professor
Steve Geiger - Solar Technology Professor
Dr. Kim Harrell - AVP Economic & Workforce Development
Project-based
Interdisciplinary
Servant Learning

Environmentally conscious
- Sustainable irrigation & landscaping
- Sustainable design & construction

Social justice orientation
- Food Insecurity
- Homelessness
- Climate change

Work-readiness Skills
- Teamwork
- Critical thinking
- Communication
- Project management

Northeast Area Development Sustainable Living Collaborative

Solar & Sustainable Construction THV Site
Certified Organic Produce
Irrigation Training
### Awards & Investments

- **2017** - Prop 39, $180,000
- **2018** – SMUD, $47,000 Shine Award
- **2019** - Teichert Construction, $8,837
- **2019** – SMUD, solar panels donation
- **2020** - Strong Workforce $76,500

### Partnerships

- **2016** - SMUD THV Competition
- **2016** - Habitat for Humanity
- **2017** - Sac Valley Nature Conservancy
- **2017** – Soleeva endorses solar installer
- **2018** - AIA Living Building Challenge
- **2019** - Stonebridge Properties
- **2019** - Otto Construction
- **2019** – Teichert Construction
- **2020** - Grid Alternatives
Advanced Building Techniques including:

• Lumber reduction & Advanced framing
• Air sealing & Insulating
• Zero Net Energy goal for competition
• Sustainable building materials
• High Efficiency appliances
Renewable Energy and Energy Efficiency

- 1.3 KW solar array
- High Efficiency Mini-Split HVAC
- Building Science tested for Air-Sealing @ .19 ACH
Solar Program

• Hands on training for living wage jobs in the solar industry
• Introducing our new Solar Certificate Program
Solar Program

• Classes:
  • Solar Photovoltaic Systems 1
  • Solar Photovoltaic Systems 2
  • Intro to Construction
  • OSHA Safety
Solar Program

Our partnership with GRID Alternatives provides real world hands-on experience for students.
CRC Tiny Homes Design/Build

- Project Based Learning that models Integrated Project Delivery
  - (Design + Construction + Owner = Team)
- Positive environment for architecture students to learn construction and vice versa
- Non-Profit Clients
  - Compassion Village Homeless Shelter
  - Sacramento Valley Conservancy
  - Kavanah
  - Soil Born Farms
AIACV Design Competition, 2018/2019

Non-Profit Client: Compassion Village Homeless Shelter

AIA Award Winner: Marishia Lopez, CRC ‘20

Honorable Mention: Van Doan, CRC ‘20
Sean Martin CRC ‘19
AIACV Design
Competition, 2018/2019

Non-Profit Client:
Compassion Village
Homeless Shelter

AIA Award Winner:
Marishia Lopez, CRC ‘20

Honorable Mention:
Van Doan, CRC ‘20
Sean Martin CRC ‘19
Caretaker’s Tiny House 2017/18

Non-Profit Client: Sacramento Valley Conservancy
Caretaker’s Cottage

Selected Design: Asim Khan, CRC ‘18
Selected Design:
Brenda Delgado CRC ’16

This young lady’s name is Nahal, she's doin a damn fine job of texturing, ARCH representin!

Cabinet construction
What makes the CRC learning environment so dynamic, is that it brings trade students into the design process, allows for contractor driven feed back in ‘constructability’, and it brings design students into the fabrication and construction side of the build process.

-Ryan Connally – Professor, Construction Technology