

# Sumo Training Course

**dynamita**  
PROCESS MODELING

Introductory course - March 26<sup>th</sup> and 27<sup>th</sup>

Advanced course - March 28<sup>th</sup>

Time – 8 AM to 5 PM PST

Venue – University of California, Irvine

Registration fee – 600 USD (1 day), 1000 USD (2 days),  
1200 USD (3 days)

*Lunch and Coffee provided*

## Includes

- A one-month Sumo license
- A one-month Digital Twin license

## To register email

- [Tanush Wadhawan - Tanush@dynamita.com](mailto:Tanush@dynamita.com)
- [Diego Rosso - bidui@uci.edu](mailto:bidui@uci.edu)



## Program details

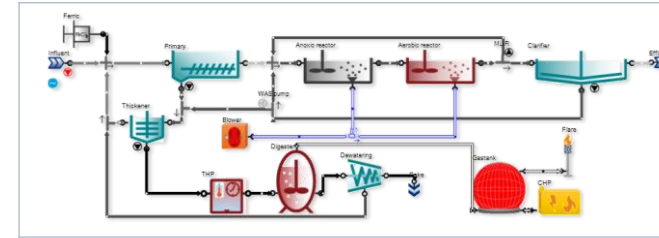
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## Contact

- web: [www.dynamita.com](http://www.dynamita.com)
- for more information:  
[info@dynamita.com](mailto:info@dynamita.com)

# Modeling in Practice

in fundamentals and design applications



Name	Energy center	Unit
Plantwide electric power demand	257	kW
CHP unit power generation	142	kW
Plant electric energy consumption	6177	kWh
Self sufficiency	55	%

## Who will benefit?

Academics, Utilities and Consultants

### → Software familiarization

- Learn how to use basic and advanced features and build process configurations
- Dynamic simulation set-up, Data plotting, Scenario analysis

### → Full plant model calibration

- Wastewater characterization
- Activated sludge and biofilm systems
- Nitrification-denitrification/Enhanced Biological Phosphorus removal
- Predicting alpha factor for improved aeration design and modeling
- Thermal hydrolysis, anaerobic digestion, and sidestream treatment
- Controllers: standard and ABAC, SRT control
- Energy/Cost module (Plant power demand and self-sufficiency)
- Greenhouse gases and Carbon footprint
- Digital Twin for Process Improvement

	Introductory		Advanced
Time (PST)	March 26th	March 27th	March 28th
8:00 - 9:00	Setting up a Nitrogen Removal Plant	Aeration and dynamic alpha	Sidestream treatment (including PdN-A)
9:00 - 9:45			
9:45 - 10:00	<b>Coffee break</b>		
10:00 - 11:00	Influent characterization, Dynamic Simulation	Upgrading to a Biological P removal	Controllers
11:00 - 12:00			
12:00 - 1:00	<b>Lunch</b>		
1:00 - 2:00	Clarifier modeling	Biofilm modeling	Energy, Cost, Greenhouse gases, and Carbon footprint
2:00 - 2:45			
2:45 - 3:00	<b>Coffee break</b>		
3:00 - 4:00	Chemical P	Solids handling - fermentation, and digestion	Sumo for Digital twin and Design Automation
4:00 - 5:00			