

# SUMO training course

**dynamita**  
PROCESS MODELING

## Event Details

- Dates — March 23<sup>rd</sup>, 25<sup>th</sup>, 27<sup>th</sup> and 30<sup>th</sup>
- Time — 9am to 1pm EST
- Venue — Online
- Registration fee — 800 USD per person
- **Includes**
  - ↳ A one-month SUMO license
  - ↳ A one-month Digital Twin license
- **To register email**
  - ↳ Tanush Wadhawan - [tanush@dynamita.com](mailto:tanush@dynamita.com)



## Program details

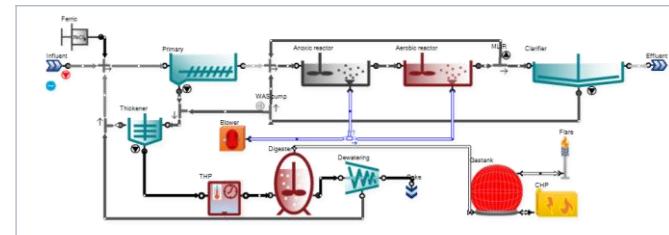
- Next page

## Contact

- web: [dynamita.com](http://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 purchase	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

Day		Monday	Wednesday	Friday	Monday		
Date		March 23rd	March 25th	March 27th	March 30th		
Time	9:00 am - 9:30 am	SUMO24 - Activated sludge plant setup (Nitrification to Nitrogen removal), scenario and sensitivity analysis mode  Wastewater characterization - data collection, reconciliation, and fractionation	Nitrification and denitrification	Aeration modeling - Diffuser, SSOTE tool, alpha modeling	Controllers introduction, setup, and application		
	9:30 am - 10:00 am						
	10:00 am - 10:30 am						
	10:30 am - 11:00 am		Solid liquid separators				
	11:00 am - 11:30 am						
	11:30 am - 12:00 pm		Phosphorus removal - Chemical and Enhanced Biological Phosphorus removal				
	12:00 pm - 12:30 pm					Biofilm modeling - MBBR and IFAS (including PdNA)	
	12:30 pm - 1:00 pm		Anaerobic digester and Sidestream treatment - deammonification				