

# **Sustainable Building Design Competition (SBDC) Learning Objectives**

- Expand students' knowledge of how development impacts a community
- Expose students to AEC industry by delivering a cross-discipline curriculum
- Increase students' knowledge of local community by focusing deliverables on the site and its impact
- Introduce students to sustainability in AEC industry with overview of green materials and building practices

# SBDC Curriculum

- General Guidelines

- Most course instructions will be virtual. Each team member will be provided laptops with appropriate software
- 5 Teams of 4 students will be selected to participate in the competition
- 2hr sessions: 5pm to 7pm on Thursdays
  - 30-60min presentation
  - 30-60min workshop
- The final presentations will be done in-person if allowed by NAACP pandemic requirements and following appropriate COVID guidelines

# SBDC Curriculum

- Session 1 – The Client

- The presenters will be the Branch President and selected members of the Executive Committee (3 or 4)
- The history of the Branch and its place in the community
- Explanation of what the client wants from this design
- Q & A time for teams will be allotted

# SBDC Curriculum

- Session 2 – Evans & Rosedale Development
  - The project developer, Hoque Global, Councilmember Chris Nettles and Economic Development Director Robert Sturns.
  - What is proposed to develop the area
  - What is the vision for surrounding community
  - Q & A time for teams will be allotted

# SBDC Curriculum

- Session 3 – Neighborhood History
  - Members of the Neighborhood Association provide historical highlights
  - Storytime at the Plaza – pictorial and written history of African Americans in the community
    - ✓ Suggested field trip for teams
    - ✓ Each team will receive slides of pictorial history via mentor
  - Intro to design by DPR

# Sessions

- Session 4 – Floor Plan
  - Bubble diagrams, space, scale, functionality
- Session 5, 6 – Interior, Exterior Elevations
  - Light, heat, waterproofing, accents/features
- Session 7 – Urban Planning
  - Landscape architecture, city planning, historical preservation
- Session 8 – Sustainability
- Session 9 – Workshop – final deliverables
- Session 10 – Workshop – final deliverables, presentation practice

# SBDC Curriculum

- Final Deliverables (Requirements)
  - Floor plan of at least one floor
  - One full exterior elevation
  - One full interior elevation
  - Computer model of design
  - One neighborhood plan
  - Summary of sustainable features
  - Team Presentation