http://www.omaha.com/news/metro/omaha-high-school-students-get-a-real-world-project-redesigning/article_b25fa58f-cf8f-5ad4-aabb-eed8693dfcdf.html

Omaha high school students get a real-world project: redesigning Norris Middle School

By Erin Duffy / World-Herald staff writer Feb 6, 2017 Updated 9 hrs ago



BRENDAN SULLIVAN/THE \

The ACE Mentor Program takes students beyond the classroom in architecture, construction and engineering. Here, Omaha I including junior Rianna Gunter, tour Norris Middle School, which is slated for a \$26.5 million renovation and addition. The high students will design an addition and present their ideas in May.

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Computer science club at Westside Middle School wins award for app that would make people smile

With hard hats on and notebooks in hand, a group of Or North High students toured a construction site at Norris Middle School.

Inside the gutted shell of the school's former auditorium, took note of ductwork that had been cut off, the trusses holding up the ceiling. They asked questions about build codes and debris disposal, and listened as engineers talke about lights and insulation that have made buildings cheand more efficient to run.

Could these students — 77 in total hailing from Westside North, South and Benson High Schools — be the next architects, engineers and construction workers local com are clamoring for?

Industry leaders are banking on it.

Over the course of the spring semester, these students w participate in the new Omaha chapter of the national AC (Architecture, Construction, Engineering) Mentor Programey will meet weekly with professional mentors from prominent Omaha firms — the 28 participating compani include Alley Poyner Macchietto Architecture, Kiewit Companied McCarthy Building Cos., DLR Group and Holland Basha Architects — to work on a hands-on project testing their design and collaboration skills.

Their charge is to design an addition for Norris Middle S the crowded, aging South Omaha school that's slated for \$26.5 million renovation and addition funded by the dist \$421 million bond program. In the process, school official hope the students will gain valuable exposure and connecto future jobs.

"My goal, by the time we're done with this, is to have companies begging for them to work there, to do interns said John Vinchattle, a curriculum specialist at North.

Companies, in turn, are looking for the chance to develo home-grown talent, and to expand opportunities for high-poverty communities that have historically been sh of Omaha's building booms. Many of the students in the and national ACE program — girls, students of color — a underrepresented in those industries.

"Maybe the biggest issue that we face in Omaha is that of economic inclusivity, the need for economic success in al of our city," said Mike McMeekin, the president of Lamp Rynearson & Associates, an Omaha engineering, plannin surveying firm. McMeekin is the chairman of the ACE N Omaha board of directors. "The ACE Mentor Program c continue toward addressing this issue."

Omaha Public Schools Superintendent Mark Evans said companies continue to turn to him with concerns about shortage of skilled workers in Omaha.

"I hear ... the need for workers, the need for highly qualif skilled workers with all these projects around Omaha," E said at an ACE Mentor kickoff event last month. "If you around, look at how many cranes you see downtown."

Entities including the City of Omaha and OPS have creat economic inclusion programs to spread more contracting among small and emerging businesses in lower-income a

But that's just one prong of OPS's economic plan — anot to get students more involved in the bond program that's up schools in their neighborhoods, said Karlus Cozart, the

district's director of economic inclusion.

"This is a really great collaboration," he said. "Here's a dishere's the students, here's the ACE industry."

Students such as Rianna Gunter, a junior enrolled at Nor High's engineering magnet program, said they're excited into a real-world project and talk to working professional can give them the skinny on college, internships and their day-to-day work as civil engineers or project designers.

"I'm hoping to learn a lot that the teachers can't teach us, real-world people," Rianna said.

Gabriel Runyon, a junior at North, wants to become an environmental engineer and is looking forward to applyi what he has learned in his engineering classes to a real — conceptual — project.

Meridith Davis, a junior at Benson High, isn't totally solo career in construction or architecture. She excels at art aldigital design, and she has considered becoming an architecture art therapist, art teacher or scenic designer for a theater.

Being involved in the ACE Mentor program will allow h explore the more technical side of design, she said. And t opportunity to earn college scholarships — Omaha comp have donated \$20,000 to fund five annual scholarships — tempting.

"The more connections, the better," Meridith said. "It's g get your name out there."

Students from the four ACE Mentor schools each toured Norris Middle last week. At one of the tours, on Jan. 31,

students heard firsthand from one of their clients: Norris Principal David Alati.

The school, one of the largest middle schools in the state built in 1959 and hasn't received much in the way of upd since. Norris has 17 portable classrooms, window air conditioning units, science classes that aren't held in true and an indistinguishable front entrance.

"We're incredibly excited to finally be at a place where th renovation is happening," Alati told students. "It's somethis community, this staff has waited a long time for."

As part of their assignment, ACE students will need to fi out how to attach up to 20 new classrooms to Norris' exi building. They will find spots for additional parking, des new, secure front entry and convert the old auditorium construction site they toured — into new administrative offices. They will present their designs in May.

Alati fielded thoughtful questions from students: Is there original architecture or design work the school wants say How much will the school's enrollment increase in the new years? Did school officials have any plans for extra gaspace on the school's 30-acre campus?

As they walked inside and outside the school, students sometimes of the portables, walked by the school's communing gardens and noted the residential neighborhood that surthe school. Mentors and teachers encouraged them to the about design and function, from the pipes buried under the front walkway to the grading of the front bus drop-off as

"I tell them, think back to your middle school," said Shan Sedlacek, an engineering teacher at North. "What would have liked to see? What are wants versus needs?"

Sarah Gordon and Ricardo Camio, two architects at BCI Architects, are working with students at North and Sout High.

"They've been really involved and really excited about it," Gordon said. "They definitely ask great questions, question never would have thought to ask in high school."

Camio, who is Latino, said the opportunity to serve as a model for other Latino teens is one of the reasons he sign to volunteer at South.

"Things weren't easy for me personally, and for a lot of the kids it could be a struggle, a stretch," he said. "I know at I me being there could be something to inspire them, to sa can do it if I want to.'"

When Gordon was in college, there were other women i architecture program, but they definitely were in the min

"It's always encouraging to see other women in the field, they're moving up the ladder and growing," she said. "I w have loved to see that when I was in high school, to have mentor relationship with another woman in the architec field."

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