Central Community College
Building Stronger Industries
The vision is clear. Central Community College’s faculty and staff are very excited about the renovation and addition to the labs, student project areas, and classrooms for the Welding Technology and Advanced Manufacturing Design Technology programs and we hope you will be, too.

The high demand for skilled labor in CCC’s service area is supported by data and the local industries that are requesting graduates from these two programs. This also is evidenced by the increasing number of career pathways that are focused on helping meet the needs of business and industry. Career pathways in Advanced Manufacturing Design Technology and Welding Technology have been established with Hastings Public Schools (both middle school and high school students), Kearney Public Schools, Grand Island Senior High School and South Central Unified School District. As these pathway students matriculate to CCC the need to expand and modernize the space for these two programs will increase. Hastings Public Schools has grown its pathway program and exceeded its capacity and is very supportive of the plans for expanding the Hastings Campus facility and developing a partnership with CCC to use its facilities and equipment for possible shared scheduling.

Today, the enrollments in Advanced Manufacturing and Welding are strong at the Hastings Campus and are anticipated to strengthen in the coming years which can be attributed to the growth of the manufacturing pathways and industry growth in the area. Projected growth for Nebraska indicates an 11.7% growth in the manufacturing industry over the next 10 years (EMSI). Manufacturing and welding education have become a top priority for the area due to the work of industry partners, CCC, educational partners, and area organizations, such as the Hastings Advanced Manufacturing Association and the Manufacturing Pathways Advisory Team (Hastings Economic Development Corporation, CCC, Hastings Public Schools).

Currently, Welding Technology and Advanced Manufacturing Design Technology are housed in 14,000 square-feet of the Hamilton Building on the Hastings Campus. The Hamilton Building has had minor updates since it was originally constructed in 1943. In fact, the railroad tracks at the east end of the building are still intact from the days of the Naval Ammunition Depot during the World War II era. The proposed addition/renovation plans create a modern, technologically advanced space of over 32,000 square feet for the Advanced Manufacturing and Welding programs. This is over 45 percent more space than currently available. The modern, state-of-the-art learning environment is responsive to the expressed needs of educational and industry partners. This project will strengthen area communities by providing an educational Advanced Manufacturing and Welding facility required to meet the workforce development and educational needs of the area for years to come.

During the past several months, community partners and advisory committee members have provided Central Community College with invaluable feedback and direction regarding this project. We are eager to share the plans that have been developed to make this project a reality. A well-trained and highly skilled workforce is needed to support a strong economy. This project addresses those needs … the possibilities are endless.

Sincerely,

William Hitesman
Hastings Campus President
Building Stronger Industries: Advanced Manufacturing Design Technology

Enhanced learning environments and additional space to learn will allow students and instructors to collaborate in helping to meet industry demand for highly skilled and trained employees. “It would be cool to see a lot more students from the various area high schools coming here. It would be a huge recruiting piece to bring them into a state-of-the-art manufacturing site,” said Alex Kemnitz, Advanced Manufacturing student. The program has grown dramatically in the last 10 years from three part-time students to a total enrollment of over 73 full- and part-time students in the 2016-17 school year. The existing labs and classrooms were designed primarily for manual machining equipment, however, industry is quickly advancing and the program needs to shift with industry to ensure that students have the knowledge and skills to be successful in the workforce. Student projects are a large part of the learning process at CCC and the Advanced Manufacturing instructors work closely with industry leaders to help shape the curriculum within the program. “It takes a village to do something like this and our industry partners are willing to help. If industry needs something in their workforce, we strive to get that knowledge and experience to our students. It helps them go out into the industry knowing the information and technology that is currently available,” said Bruce Bartos, Advanced Manufacturing Design Technology instructor. Completion of this project will create new opportunities for students to advance in the field.

| 73 | Students enrolled 2016-17 *Unduplicated headcount |
| 42 | 5-year enrollment average |
| 87 | Total awards granted 2016-17 *Degrees, diplomas, certificates |

“...I appreciate the group support from people outside of my parents. When I come to class, the instructors are there reassuring me that I can do this and there isn’t a reason to worry. You don’t get to see that a lot of places these days. Having your parents’ support is one thing, but to have someone else who is an advocate for you is really neat.”

Alex Kemnitz, Advanced Manufacturing student

CCC Advanced Manufacturing Facts
Growth is a great problem to have and one that the Welding Technology program at CCC-Hastings knows all too well. Instructor Mike Consbruck has watched over the last several years as the program has simply run out of space. The renovation and expansion will increase the program’s teaching area by 38 percent. Which is room anxiously anticipated by students. “It’s so hard right now because of space. Some of the clamps are hard to maneuver because there just isn’t a lot of room,” Jadrian Yates, Welding student, said. She admits the current challenges presented by limited space forces students to learn to adapt to their surroundings. “The ability to have more room to build our projects would be amazing. Now we can only build on a small scale no more than a couple of feet, but some students would love to try building full-sized trailers for their projects,” she said. Instructors are looking forward to increasing the number of students who can be in the program at a time. “Our graduates are being employed by companies in our 25-county service area and beyond. Employers frequently ask us who we have graduating and they come in and present to our students to inform them about what their companies have to offer. The partnerships will only continue to grow,” Consbruck said.

My two favorite things about the welding program is it being so hands-on. I love that. I was worried it would be more textbook learning. The other is the instructors. If it wasn’t for them pushing me, I wouldn’t be where I am; already employed before graduation. The instructors have your back personally and educationally. I couldn’t ask for better instructors.

Jadrian Yates, Welding student

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**CCC Welding Facts**

- **61** 5-year enrollment average
- **165** Students enrolled 2016-17
- **129** Total awards granted 2016-17
  - Degrees, diplomas, certificates

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Building Stronger Industries: Welding Technology
Central Community College believes in maximizing community success. Which is why CCC values its community partnerships. The Hastings Campus Major Gifts Campaign builds upon existing and creates new partnerships. The Hastings Economic Development Corporation strongly supports the goal of this campaign. “The number one need and concern of any employer or manufacturer is the availability of a talented workforce. CCC is able to educate and create that workforce which helps to feed our local industry and has been critically important for the growth of our employers. It certainly has helped to fill a need, but we hope that we can do a whole lot more,” said Dave Rippe, Former HEDC executive director and current Nebraska economic development director.

As area businesses grow, so does the need for a skilled workforce. “It’s a proven fact that students at CCC remain in the area after graduating. So the ability to educate that skilled workforce in our own community is a huge benefit. It’s extremely encouraging not only to the community of Hastings, but to the state of Nebraska as a whole,” said Rhonda Pauley, Pauley Group and Central Community College Foundation president. “We are empowering our community by empowering our students with the best education available and keeping them here,” she said.

"If Hastings and the Hastings area want to be a community or region of choice for employment, this type of investment to grow the programs at Central Community College is a must. If we want to be a home for manufacturing, a home for business and industry, having that talent here in our own backyard is step number one."

Dave Rippe, Former HEDC Executive Director and current Nebraska Economic Development Director

**CCC Fast Facts**

- 99% of CCC graduates who were employed full-time remained in Nebraska
- 2,174 Career and technical awards granted at CCC in 2016-17
- $2.8M Awarded in scholarships 2016-17
Career pathways are designed so that students graduate from high school college- and work-ready, giving them the option to immediately enter the workforce with basic skills or continue into postsecondary education. Hastings Public Schools (both middle school and high school), Kearney Public Schools, Grand Island Public Schools and South Central Unified School District have all established career pathways. As students within these programs graduate and move on to the college level, it is imperative that Central Community College is able to provide them with continuing education in their career pathway. “The expansion of the CCC Welding and Advanced Manufacturing programs will certainly help fill manufacturing and welding jobs in the area. It will ultimately provide the region with a better workforce and that helps everyone. It will certainly increase the economic benefits if the number of people who are trained in this industry increases,” Craig Kautz, Hastings Public Schools Superintendent, said. These programs have been an enormous influence on the career pathways model. “Thanks to our work together with CCC we will continue to be able to provide our students with state-of-the-art programming. This investment is really going to improve the educational level of the students and the number of students who will have access to a great career without having to invest $100,000 on a four-year education,” Kautz said.

Because of our partnership with CCC, we are now offering dual credit programs at the junior and senior level of our high school. This gives our students, who do have a challenge paying for college, a leg up on about 12 hours of credit at the college level. It’s an extraordinary benefit to our school system and to our students.

Craig Kautz, Hastings Public Schools Superintendent
Building Stronger Industries: Industry Partnerships

Developing a strong, skilled workforce is imperative for continued community growth. Estimates for Nebraska predict a 4.2% increased need for welders and an 11.7% rise in the manufacturing industry (EMSI). Bob Wilson, retired CEO of Flowserve, recalled having 30 people within five years of retirement with only 11 or 12 high school students participating in the Manufacturing Career Pathway only a few years ago. “When you have a problem of too few qualified candidates, you pick the best candidate and train them on the job, but it’s an expensive proposition. It’s a lot easier and cost effective for a company to hire a person who is already skilled and trained in the field,” Wilson said. Industry leaders have been working to increase the number of students entering the Advanced Manufacturing and Welding programs at CCC through scholarships and other incentives. “We provide some tuition assistance and help with books while employing those students part-time while they are at CCC. We always hope that they like us enough to stay on after graduation,” Gale Beirow, president of Hastings Irrigation Pipe Company, said. Industry leaders are looking at the future. “If you can put more people through the program, that increases the number of skilled workers entering the industry. That means the businesses themselves have the ability to grow, which is good for the economy and the area,” Andy Beirow, vice president at Hastings Irrigation Pipe Company said.

Hastings Area Region Manufacturers have a great need for the type of people who would be going through these programs. There just aren’t that many qualified people out there who are available. There are many good paying jobs going unfilled in this area that students with an education in these two programs from CCC could fill.

Gale Beirow, Hastings Irrigation Pipe Company President
HAMILTON BUILDING:
Welding Expansion Renovation
Advanced Manufacturing Addition

CONSTRUCTION LAB
COMPUTER LAB
DRAFTING LAB
CLASSROOM
LOBBY
OFFICE
WELDING LAB
LOCKERS
MECHANICAL RECEIVING & MATERIAL STORAGE
PROJECT AREA
ADVANCED MANUFACTURING
CUST. ROBOTICS AMDT CLASSROOM
ELEC / DATA
GRINDING
PRESS
LOCKERS
MECHANICAL
WELDING LAB
METAL RECEIVING AND CUTTING
FINISH ROOM
STORAGE & TOOL ROOM
STORAGE
ALUM GRINDING
DISPLAY BUILT-IN BENCH OPERABLE WALL
15,250 SF Remodel
17,115 SF Addition
CUSTODIAL
CONFERENCE
VESTIBULE
FRONT HALLWAY
VESTIBULE
CENTRAL COMMUNITY COLLEGE - HASTINGS
HAMILTON BUILDING
MECHANICAL MATERIAL STORAGE
AMDT ADDITION & WELDING RENOVATION
Date: October 30, 2017
Project Number: 1745

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**CCC Mission:**
Central Community College maximizes student and community success.

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*for developing a skilled workforce*

• employability and/or successful credit transfers

• graduates who advocate for CCC
• business and industry partnerships
• state-of-the-art facilities and technologies

*for advancing communities*

• educational partnerships
• strong alumni support
• foster economic development
• sustainability leaders