







The integration of simulation technology into the Nursing, EMS, Medical Assistant and Surgical Technologist curricula; since the opening of the HESC in 2012, faculty in all of these disciplines have made a concerted effort to include simulation training into the health curricula. In addition, in 2020 (and in part due to the COVID-19 pandemic that has severely limited clinical opportunities), our nursing program began making additional use of VSim software that enables nursing students to practice essential nursing skills in a virtual environment.

In 2017, North Central received full approval from the Commission on Accreditation of Allied Health Educational Programs (CAAHEP) for accreditation of our EMS-Paramedic programs; the college was also approved as only the second Michigan site for offering Critical Care Paramedic courses from the University of Maryland Baltimore County (UMBC).

Also in 2017, North Central began partnering with local fire departments on a shared Regional Fire Training Center, capable of offering both initial and command-level training courses. We anticipate that the EMS accreditation, the UMBC selection, and the Regional Fire Training Center will enhance our abilities to attract students to all of our health programming.

As the result of a generous donation of an Anatomage Table (a virtual cadaver lab), students in North Central's health sciences programs have the ability to digitally dissect human cadavers while simultaneously viewing tissue slides of dissected structures. In the past year, we have also upgraded our simulation technology to enhance pediatric skills practice; in our rural environment, pediatric patients are less common but the demands on provider skills remain high. This technology allows us to prepare students more effectively than having to wait for the infrequent ill or injured child.

#### Workforce Development and Adult Education Programming

North Central Michigan College's Corporate & Community Education (CCE) provides customized corporate training, workforce development, safety training, Lean learning, professional development programs, and community & continuing education. CCE also serves as a gateway to the college for many nontraditional learners, particularly older workers and at-risk youth. In 2020 – 2021, approximately 66% of CCE students were at least 30 years old.

CCE has made particular strides in manufacturing, farming and health care, along with continued growth in professional development programs for adult learners. We host programs on campus, company sites, high schools, Michigan Works! Centers, and online.

Workforce Development training topics 2020 – 2021 academic year included:

<b>Training Topics</b>	<b>Enrollment</b>
Public Safety / Allied Health	542
Ergonomics-MISHA/LARA	216
Farming / Gardening	40
Local History	985
Fitness / Wellness	359
Manufacturing / Trades	70
Elder Series	35
Other / Personal Interest	207
<b>Total Enrollment</b>	<b>2454</b>

CCE gathers feedback from participants on the effectiveness of the program, the relevance to workplace skills, the quality of the instructor, instructional materials, and the facility. In addition, the questionnaires ask participants what other programs ought to be offered.

In addition to the individual questionnaires, CCE maintains a database of more than 4,400 contacts in various business sectors. CCE periodically surveys interest groups to determine

### **Chart 1: Dual-enrollment trends**

Between the fall semesters of 2014 and 2017, dual enrollment headcount increased by more than 50% and credit hours taught by more than 120%, although both have been declining since 2019.

North Central attracts a significant number of high school graduates from the region each year. In the fall 2021 semester, approximately 12% of all area 2021 high school graduates enrolled at North Central, with 16% of graduates from Emmet County, our immediate service area, attending North Central.

North Central is affiliated with the Michigan Department of Education. The college works in partnership with Char-Em ISD on various career and technical education (CTE) programs, and tech-prep articulations for programs including accounting, business management, creative teaching, health occupations, information technology, mechanical drafting, and marketing.

#### Technical/Vocational Training on the Move

A unique learning resource at North Central is the mobile CNC Fabrication Laboratory (Fab Lab). Our Fab Lab was built in partnership with the Northern Lakes Economic Alliance (NLEA), the Michigan Economic Development Corporation (MEDC), Precision Edge Surgical Products Company, and many other area manufacturers. CCE assisted in bringing the Fab Lab concept to Northern Michigan and has used it to train area youth and workers at local employers, such as local manufacturer, Moeller Aerospace.

In addition, North Central partnered with the Little Traverse Bay Bands of Odawa Indians to secure a \$1.5 million SEEDS grant which provided CNC equipment for a stationary manufacturing and teaching lab in the college's Technology Building. The stationary



University, Davenport University, Eastern Michigan University, Ferris State University, Lake Superior State University, Madonna University, Northwood University, Spring Arbor University, and the University of Michigan-Flint.

In some cases, students may continue their post-North Central college career in Northern Michigan through courses offered in Petoskey by our university partners.

North Central has signed reverse transfer agreements with Lake



North Central Michigan College creates value in many ways. The college plays a key role in helping students increase their employability and achieve their individual potential. The college draws students to the region, generating new dollars and opportunities for the Four-County Region. NCMC provides students with the education, training, and skills they need to have fulfilling and prosperous careers.

NCMC influences both the lives of its students and the regional economy. The college supports a variety of industries in the Four-County Region, serves regional businesses, and benefits society as a whole in Michigan from an expanded economy and improved quality of life. The benefits created by NCMC even extend to the state and local government through increased tax revenues and public sector savings.

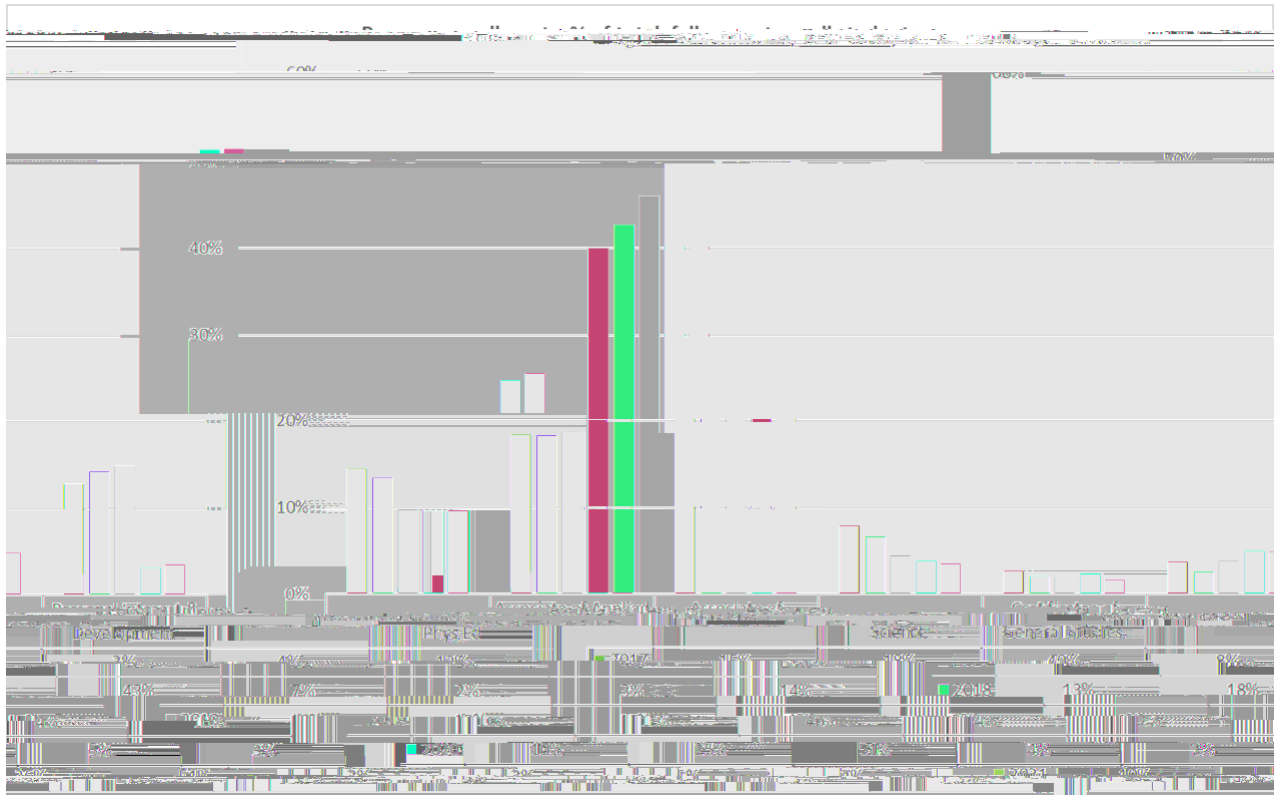
In FY 2018-19, NCMC added \$74.2 million in income to the Four-County Region economy, a value approximately equal to 1.5% of the region's total gross regional product (GRP). Expressed in terms of jobs, NCMC's impact supported 1,376 jobs. For perspective, the activities of NCMC and its students support one out of every 49 jobs in the Four-County Region.

The students' benefit-

2010. As represented in Chart 2 below, enrollment peaked at 56,340 credit hours in 2009-10 and has declined to the range of 30,000 - 35,000 credit hours in the past few years.

### **Chart 2: Credit enrollment history**

The programs into which students enroll have also shifted over the past five years. Dual-enrolled students have become a substantial portion of our overall enrollment, as shown earlier in Chart 1. To demonstrate the impact of dual-enrolled students, t



**Chart 3: Fall program enrollments, ALL students**



**Chart 4: Fall program enrollments, NON-DUAL students**

As can be seen by comparing the Associate of General Studies (AGS) values between the two graphs, although there's been quite an increase in student preference for this program (Chart 3), most of that is being driven by the dual-enrolled students, the majority of whom enroll in the AGS program. This is evidenced by the relatively flat enrollment in that program in Chart 4.

Beginning in the Fall 2020 semester, North Central reclassified the group of students who previously enrolled in only our Physical Education fitness classes. Those students are now counted in our community education division; thus, they do not appear in the above graphs. This explains the sudden drop in the "Personal Interest & Phys Ed" students for the past two years.

While overall percentages of program enrollments are shown in the graphs above, the following table details the enrollments in specific programs for the 2020 – 2021 academic year. Note that the final programs listed, the Liberal Arts associate degrees (AA, AS, AGS), indicate total and dual enrollments, highlighting that virtually all dual-enrolled students enroll in those programs.

*The college offers the following academic programs. Totals are for non-dual-enrolled students, unless otherwise indicated.*

<b>Major</b>	<b>Description</b>	<b>CIP</b>
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153	EMS/Paramedic	51.0904	CER	3	0.1%
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**e. Projected Staffing Needs, Enrollment Estimates, Program Changes**

For the academic year 2020 – 2021, the college employed 25 full-time faculty members and a dedicated adjunct instructional corps. We anticipate adding some full-time faculty positions in 2022 – 2023.

**f. Current and Projected Average Class Size**

The college offers approximately 350 – 400 course sections in each of the fall and winter academic terms and approximately 50 sections in the summer session. Of these, approximately 30% are either online or hybrid (both online and face-to-face instruction) offerings.

**CURRENT AVERAGE CLASS SIZE 2020 ±2021**

Fall, Winter = 11.0 (Online/hybrid = 16.0)

**PROJECTED AVERAGE CLASS SIZE**

2021	13.0
2022	13.0

**IV. Facility Assessment**

**a. 6XPPDU\ GHVFULSWLRQ RI HDFK IDFLOLW\ DFFRUGL to-gross ratio JXLGHOLQH V IRU YDULRXV EXLOGLQJ W\SHV**

See [Fac18](#)>> [BDC q0.047.13 474.9](#)

**c.**





- i. **Does the institution have an enterprise-wide energy plan? What are its goals? Have energy audits been completed on all facilities; if not, what is the plan/timetable for completing such audits?**

The College does not have a formal enterprise-wide energy plan, but it does have the following energy goals for the years 2023 to 2027:

**Goal 1** | The next scheduled campus-wide energy audit will be conducted in 2023. The last campus-wide energy audit was conducted by Rebuild Michigan Energy Services in April of 2016. A campus-wide lighting audit was conducted in 2017. Since then the highest energy usage areas on campus have been converted to LED lighting. And, a solar panel and a charging station were added on campus.

**Goal 2** | Formalize enteETQq0.00000912 0 612 792 reW\* nBT/F2 12 Tf1 0 04nph01.65o

The Jack and Dorothy Harris Health Education and Science Center, which was 50% funded through the State's 2010 capital outlay bill, is obligated to the State Building Authority. The lease with the SBA has a term of 40 years and will expire in 2055.

The Borra Learning Center, which was 46% funded through the State's 2020 capital outlay bill, is obligated to the State Building Authority. The lease with the SBA has a term of 40 years and will expire in 2060.

#### **IV. Implementation Plan**

- a. Prioritize major capital projects requested from the State, including a brief project description and estimated cost in the format provided.**

The college previous in 205

