According to the Bureau of Labor and Statistics,

engineering (as a general



ENGINEERING (ASE) Associate of Science in Engineering

NMC CODE 735

This intensive associate degree is intended to prepare students for transfer to a four-year engineering program. The NMC engineering curriculum parallels engineering programs offered during the first two years at other colleges and universities. Traditionally, these first two years emphasize the tools and theories that provide background for all engineering fields. Students are required to meet with an advisor for completion of this degree.

CORE REQUIREMENTS: 48 Credits

COURSE	TITLE	CREDITS
ENG 111	English Composition	4
ENG 112	English Composition	4
Humanities	Any Group One Course	3
Social Science	Any Group One Course	3
CHM 150/L/R	General Chemistry I	5
MTH 141	Calculus I	5
MTH 142	Calculus II	5
MTH 241	Calculus III	5
MTH 251	Differential Equations	4
PHY 221/L/R	Problems and Principles of Physics I	5
PHY 222/L/R	Problems and Principles of Physics II	5
DIRECTED ELECTIVES*:		25
BIO 227/L	Human Anatomy & Physiology I	4
BIO 228/L	Human Anatomy & Physiology II	4
CHM 151/L/R	General Chemistry II	5
CHM 250/L	Organic Chemistry I	5
CHM 251/L	Organic Chemistry II	5
CIT 110	Programming Logic and Design	3
EGR 101	Introduction to Engineering	1
EGR 111	Introduction to Computer Science	3
EGR 113	Engineering Graphics	3
EGR 131	Elementary Surveying	5
EGR 201	Statics	3
EGR 202	Mechanics of Materials	3
EGR 203	Dynamics	4
EGR 211	Electrical Circuits	3
EGR 220	Engineering Practice I	2
EGR 221	Material Science	3
EGR 232	Introductory Thermodynamics	3
ENV 111/L	Physical Geology	4
DEGREE TOTAL CREDITS		73

* Directed Electives will be determined by the type of engineering program the student is pursuing and the university to which they are transferring. See program advisor for Institution / program course information.

Michigan Tech articulation agreements

- Seven specialties including civil, mechanical and electrical. 100% transfer to Michigan Tech.
- Start at Michigan Tech as a junior. Chosen specialty determines exact number of remaining credits.
- ▶ Up to **80 NMC** credits (mechanical engineering) accepted and counted.

Lake Superior State University also has an articulation agreement with NMC. nmc.edu/transfer-guides

Connect with us

Northwestern Michigan College 1701 E. Front Street, Traverse City, MI Admissions: (231) 995-1054 Engineering: (231) 995-1270 James Smith, Engineering Instructor jsmith@nmc.edu | nmc.edu/engineering



payscale.com, accessed May 2022



ENGINEERING





YOUR PATHWAY

Engineer a successful career.



Sound like you?

- > Like to problem solve
- > Think outside the box
- > Math is your thing
- > Details matter to you
- > Technology is your passion
- > Think analytically
- > Like to design and build
- > Group projects are the best

A professional career in engineering might be your thing.

NMC's personalized education









Student Support ----

- > Academic & Career Advising Center
- > Disability Support Services
- > Math Center
- > Tutoring Center
- > Writing and Reading Center
- > Student Success Center



or take online classes while attending a university.

Most individual

classes/courses are

approved for transfer

to 4-year schools. Options: Livestream

ALL NMC INSTRUCTORS HAVE MASTER'S OR DOCTORAL DEGREES IN THEIR RESPECTIVE FIELDS

Engineering specialties

- > Mechanical
- > Electrical
- > Civil
- > Robotics
- > Biomedical
- > Chemical
- > Computer
- > And others

\$26,020 YOU CAN SAVE



specific scholarships

Gosling Czubak engineering scholarship

Arthur Moenkhaus engineering scholarship

Richard Redmond Jr. Legacy Pipeline engineering scholarship

For more info: nmc.edu/engineering Two degree pathways at NMC to prepare you for the workforce or a bachelor's in engineering. ENGINEERING (ASA) Associate in Science and Arts

CODE 709

The Associate in Science and Arts degree is generally pursued by students who are planning to transfer to a four-year college or university to complete a baccalaureate degree. Students who want to **explore** the curriculum also frequently pursue the ASA degree.

\$33,300 Tuition at U of M or MTU* (4-semesters/60 credits)

- \$7,280 Tuition at NMC* (4 semesters/65 contacts)

NMC can help you get ahead & save money.

MAJOR REQUIREMENTS

COURSE	TITLE	CREDITS	
CHM 150*	General Chemistry I	5	
MTH 141**	Calculus I	5	
MTH 142**	Calculus II	5	
MTH 241**	Calculus III	5	
MTH 251**	Differential Equations	4	
PHY 221	Problems & Princ. of Physics I	5	
PHY 222	Problems & Princ. Of Physics II	5	
EGR 101	Introduction to Engineering	1	
EGR 113	Engineering Graphics I	3	
EGR 201	Statics	3	
Based on program choice:			
EGR 131	Elementary Surveying	5	
EGR 202	Mechanics of Materials	3	
EGR 203	Dynamics	4	
EGR 220	Engineering Practice I	2	
EGR 232	Introductory Thermodynamics	3	
Additional General Education Credits			
as required for the ASA degree		30-32	
TOTAL DEGREE CREDITS		60	
*, ** see website for more information at nmc.edu/programs/academic-programs/engineering			

Start here. NMC makes it easy.



We're here to support you:

- > Learn from industry experts
- > Enjoy beautiful Traverse City, MI
- > Live on campus
- > Experience hands-on learning opportunities



ENGINEERING (ASE)





