

ASSOCIATE OF SCIENCE DEGREE PROGRAM

Pre-Engineering

NHSC's Pre-Engineering Program prepares students to transfer to four-year colleges and earn bachelor's degrees in engineering. The curriculum introduces students to the profession and to a number of engineering specialties. The program provides thorough grounding in mathematics, physics and chemistry courses, which are the foundation of engineering.

The two-year program emphasizes how an engineer can benefit a local community and society as a whole; Students must achieve a "C" or better in all core classes. Those who complete the program receive associate's degrees.

Some jobs you can get with an Associate Degree in Pre-Engineering.

- Civil engineer
- Software engineer
- Assistant store manager
- Senior buyer
- Project control manage.
- Production supervisor
- Process engineer

TOGETHER WE THRIVE

Start Your Career Today!



701-627-4738 | NHSC.EDU

301 College Drive, New Town, ND 58763

GENERAL EDUCATION COURSES

COURSE/TITLE		CREDITS
ENGLISH & SPEECH (9)		
COMM 110	Fundamentals of Public Speaking	3
ENG 110	Composition I	3
ENG 120	Composition II	3
FOUNDATIONS & FITNESS (2)		
PSY 100	Psychology of Student Success	1
ASMT 200	Assessment of Student Learning	1
HUMANITIES & NATIVE AMERICAN STUDIES (6)		
NAS 201	History of TAT	3
NAS 113/115 or 117	Hidatsa, Mandan, Arikara	3
MATH, SCIENCE & TECHNOLOGY (12)		
MA 103 (or above)	College Algebra (or higher)	4
CHEM 121	Chemistry I	4
CSCI 101	Introduction to Engineering/CAD	4
SOCIAL/BEHAVIORAL SCIENCE (6 AS ADVISED)		
WELLNESS (2 AS ADVISED)		

ELECTIVE REQUIREMENTS

COURSE/TITLE		CREDITS
ENGINEERING ELECTIVES (MIN OF 4: 12-14 CREDITS REQUIRED)		
ENGR 201	Statics	3
ENGR 202	Dynamics	3
ENGR 297	Engineering Internship	3
ME 223	Mechanics of Materials	3
ME 350	Thermodynamics	3
CE 204	Surveying	4
EE 206	Circuit Analysis I	4
MATH ELECTIVES (MIN OF 4: 13-16 CREDITS REQUIRED)		
MA 105	Trigonometry	2
MA 107	Pre-Calculus	4
MA 129	Basic Linear Algebra	3
MA 165	Calculus I	4
MA 166	Calculus II	4
MA 265	Calculus III	4
MA 266	Differential Equations	3
SCIENCE ELECTIVES (MIN OF 1: 4 CREDITS REQUIRED)		
PHYS 251	University Physics I	4
PHYS 252	University Physics II	4
CHEM 122	Chemistry II	4

Total General Education Requirements Required	37
Total Elective Required Credits	29
Total Degree Credits	66

