

PRE-ENGINEERING TRANSFER TO SOUTH DAKOTA SCHOOL OF MINES & TECHNOLOGY

Northeast Community College has entered into an articulation agreement with South Dakota School of Mines and Technology (SDSM&T) for students to complete an associate of science degree and transfer the majority of those credits to SDSM&T to complete a bachelors degree in one of its many colleges of engineering. Students interested in pursuing an SDSM&T degree program should contact SDSM&T office of admissions. Individual guidance on the transfer process will be provided by SDSM&T.

Suggested Program of Study for Associate of Science Degree (2 Years)

FRESHMAN YEAR

First Semester	
Course	Credits
ENGR 1010 Introduction to Engineering Design	3
MATH 1600 Analytic Geometry and Calculus I	5
CHEM 1090 General Chemistry I or CHEM 1140 General Chemistry I for majors plus Lab	4-5
Humanities*	3
ENGL 1010 English Composition I	3
	18-19

Second Semester	
Course	Credits
ENGR 1020 Programming and Problem Solving**	3
MATH 2010 Analytic Geometry and Calculus II	5
CHEM 1100 General Chemistry II or CHEM 1160 General Chemistry II for majors plus Lab	4-5
PHYS 2110 General Physics I with Calculus	5
	17-18

SOPHOMORE YEAR

First Semester	
Course	Credits
ENGR 2020 Engineering Statics.....	3
MATH 2100 Differential Equations	3
PHYS 2120 General Physics II with Calculus	5
ENGL 2070 Technical Communications I.....	3
Social Science *	3
	17

Second Semester	
Course	Credits
ENGR 2010 Introduction to Circuits and Electronics	4
MATH 2020 Calculus III	5
PHYS 2300 Dynamics	3
Behavioral Science *	3
ENGL 2080 Technical Communications II	3
	18

Total Credit Hours 70-72

* SDSM&T requires two Humanities Courses totaling six credit hours (each course must have a different course prefix; i.e. HUM, MUSC, THEA, HIST, ENGL; exception two same foreign language courses are acceptable).

* SDSM&T require two Social Science Courses totaling six credit hours (each course must have a different course prefix; i.e. POL, PSY, SOC; Northeast Behavioral Science course may count as one of the two course requirements).

* Northeast requires nine credit hours with one course each from Humanities, Social Science, and Behavioral Science.

** Will not count toward SDSM&T academic major (unless as a potential allowed elective).

The University of Nebraska-Lincoln has developed four courses to be taught by the community colleges as part of a pre-engineering initiative for students interested in transferring to UNL in agriculture, bio-systems, civil, or electrical/electronics engineering (for other fields of engineering, check with an advisor for acceptable courses). UNL offers a limited number of scholarships for transfer students in the STEP program.

The courses are:

ENGR 1010 Introduction to Engineering Design
ENGR 1020 Programming and Problem Solving
ENGR 2010 Introduction to Circuits and Electronics
ENGR 2020 Engineering Statics

Suggested Program of Study for Associate of Science Degree (2 Years)

FRESHMAN YEAR

First Semester	
Course	Credits
ENGR 1010 Introduction to Engineering Design	3
MATH 1600 Analytic Geometry and Calculus I	5
CHEM 1090 General Chemistry I or CHEM 1140 General Chemistry I for majors plus Lab.....	4-5
ENGL 2070 Technical Communications I**	3
	15-16

Second Semester	
Course	Credits
ENGL 2080 Technical Communications II***	3
MATH 2010 Analytic Geometry and Calculus II.....	5
CHEM 1100 General Chemistry II or CHEM 1160 General Chemistry II plus Lab.....	4-5
PHYS 2110 General Physics I with Calculus.....	5
	17-18

SOPHOMORE YEAR

First Semester	
Course	Credits
ENGR 2020 Engineering Statics.....	3
MATH 2100 Differential Equations	3
PHYS 2120 General Physics II with Calculus	5
Humanities*	3
Behavioral and Social Sciences*	3
	17

Second Semester	
Course	Credits
ENGR 2010 Introduction to Circuits and Electronics.....	4
MATH 2020 Calculus III	5
Behavioral and Social Sciences*	3
ENGR 1020 Programming and Problem Solving**	3
	14

Total Credit Hours 63-65

*Northeast requires nine credit hours with one course each from Humanities, Social Science, and Behavioral Science.

*Must take at least one course from each of the two categories

Humanities (see general education requirements and see advisor)

Behavioral and Social Sciences (see general education requirements and see advisor)

**Meets Northeast written communications requirement and UNL ACE requirement.

***Meets Northeast oral communication requirement and UNL ACE requirement.