

Pre-Engineering

Northeast Community College and Wayne State College offer a cooperative two-year program of study in Pre-Engineering built around a strong core of mathematics and sciences and a good grounding in communication, humanities, and the social sciences. The program articulates with the engineering curricula at various engineering schools including South Dakota State University and South Dakota School of Mines and Technology. By completing the program at Wayne State College, you may transfer credits back to Northeast Community College to receive an Associate of Science Degree.

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

Freshman Year

| FIRST SEMESTER | |
|---|---------|
| Course | Credits |
| CHEM 1140 General Chemistry I..... | 5 |
| ENGL 1010 English Composition I..... | 3 |
| MATH 2000 Analytic Geometry and Calculus I..... | 5 |
| Humanities/Social Science elective*..... | 3 |
| PHY 115 Professionalism in Science**..... | 2 |
| | 18 |

| SECOND SEMESTER | |
|--|---------|
| Course | Credits |
| CHEM 1160 General Chemistry II..... | 5 |
| MATH 2010 Analytic Geometry and Calculus II..... | 5 |
| PHYS 2030 General Physics I..... | 5 |
| SPCH 1010 Fundamentals of Communication..... | 3 |
| | 18 |

Sophomore Year

| FIRST SEMESTER | |
|--|---------|
| Course | Credits |
| MAT 240 Ordinary Differential Equations**..... | 3 |
| PHY 302 General Physics II**..... | 4 |
| PHY 322 General Physics II Lab**..... | 1 |
| CSC 150 Programming Fundamentals I**..... | 3 |
| PED 103 Lifestyles Assessment**..... | 2 |
| PHY 214 Statics**..... | 3 |
| Humanities/Social Science elective*..... | 3 |
| | 19 |

| SECOND SEMESTER | |
|--|---------|
| Course | Credits |
| ENGL 2070 Technical Communications..... | 3 |
| MAT 340 Calculus III**..... | 4 |
| PHY 215 Applied Dynamics**..... | 3 |
| PED 203 Lifestyles Management**..... | 1 |
| Science elective*..... | 3 |
| Humanities/Social Science elective*..... | 3 |
| | 17 |

To earn an associate of science degree, a student must satisfactorily complete a minimum of 60 semester hours that include the general education requirements.

* See general education requirements.

** Wayne State College course

NOTE: Successful completion, as defined by most receiving institutions, is considered a 2.5 overall GPA and a minimum of a 3.0 GPA in core classes.