



## Transfer Guide – AS Engineering to BS Electrical Engineering

### Transfer Process

All transfer students seeking a Bachelor of Science in Electrical Engineering should follow the admission procedures located at [www.stcloudstate.edu/transfer](http://www.stcloudstate.edu/transfer) to be admitted to St. Cloud State University (SCSU). A student must first be accepted to St. Cloud State and then may apply to the Electrical Engineering major after meeting the major’s admission requirements.

### Requirements for Admission to the Electrical Engineering Majors:

- Completion of AS degree in Engineering
  - Major GPA of 2.5 or higher
- or
- Direct admission to major:
    - Overall GPA of 2.0 or higher
    - C or better in GENG 102, ECE 201 and 220

The following courses transfer from Anoka-Ramsey Community College to St. Cloud State:

| Anoka Ramsey Community College Course   | SCSU Course  |
|---|--|
| <b>ENGR 1100</b> Introduction to Engineering  | <b>*GENG 101</b> Ethics & the Engineering Profession (Goal 9)  |
| <b>CSCI 1125</b> Object-Oriented Programming using Java   | <b>*GENG 102</b> Engineering Problem Solving   |
| <b>ENGR 2219 &amp; 2220</b> Linear Circuits I & II  | <b>*ECE 201 &amp; 202</b> Circuit Analysis I & II  |
| <b>ENGR 2218</b> Digital Logic  | <b>*ECE 220</b> Digital Logic Design   |
| <b>Choose one of the following as your final additional requirement: ENGR 1111, 2240, 2241, 2242, 2243, CHEM 1062, or MATH 2100</b> | <b>These courses are equivalent to MME 223, 200, 241, 242, 243, CHEM 211 &amp; MATH 271 at SCSU – Non EE Elective in Program</b> |
| <b>MATH 1400 &amp; 1401</b> Calculus I & II   | <b>MATH 221 &amp; 222</b> Calculus I & II  |
| <b>MATH 2220</b> Multivariable Calculus and Vector Analysis   | <b>MATH 321</b> Vector & Multivariable Calculus  |
| <b>MATH 2201 &amp; 2210</b> Intro Linear Algebra & Differential Equations   | <b>MATH 327</b> Differential Equations with Linear Algebra   |
| <b>CHEM 1061</b> Principles of Chemistry I  | <b>*CHEM 210</b> General Chemistry I   |
| <b>CSCI 1106</b> Fundamentals of Computer Science I   | <b>CSCI 201</b> Computer Science I   |

The following courses are *suggested* for particular MnTC Goals:

| Anoka Ramsey Community College Course                 | SCSU Course  |
|---|--|
| <b>CMST 1110</b> Introduction to Communication        | <b>CMST 192</b> Introduction to Communication Studies              |
| <b>Math 2230</b> Probability & Statistics             | <b>STAT 353</b> Statistical Methods I for Engineering              |
| <b>PHYS 1327 &amp; 1328</b> College Physics I & II    | <b>*PHYS 234 &amp; 235</b> Classical Physics I & II                |
| <b>ENGL 1121</b> College Writing and Critical Reading | <b>*ENGL 191</b> Intro to Rhetorical & Analytical Writing (Goal 1) |

\*If a student completes a Goal within the MnTC, the same Goal will be completed at St. Cloud State once transferred.

### Additional Requirements to Consider when Degree Planning

- Completion of 10 Goals (40 credits) in the MnTC (known as the Liberal Education Program at St. Cloud State)
- 40 upper-division credits (300-400 level coursework) are required to graduate
- Avoid taking a Goal 9 course

Please refer to [www.transferology.com](http://www.transferology.com) for up-to-date information on course equivalencies.

**The information in this guide is subject to change without notice.**

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