

# Industrial Systems Fundamentals (IS61)

## Certificate eMap

*This eMap, along with regular meetings with your program advisor and using DegreeWorks, will help you remain on track to finish your program as quickly as possible and graduate from Georgia Northwestern Technical College. This eMap is intended to be used when beginning the program in Fall semester. Starting the program in Spring or Summer semesters may alter the suggested courses or course availability. This pathway is based on the 2026-2027 academic year.*



| 1 <sup>st</sup> set of suggested courses |                                  |       |                          |
|------------------------------------------|----------------------------------|-------|--------------------------|
| Course                                   |                                  | Hours | Completed                |
| MATH 1012                                | Foundation in Mathematics        | 3     | <input type="checkbox"/> |
| OR                                       | OR                               |       |                          |
| MATH 1013                                | Algebraic Concepts               |       |                          |
| IDFC 1007                                | Industrial Safety Procedures     | 2     | <input type="checkbox"/> |
| IDSY xxxx                                | Occupational Elective            | 3     | <input type="checkbox"/> |
| IDSY 1101                                | DC Circuit Analysis              | 3     | <input type="checkbox"/> |
| OR                                       | OR                               |       |                          |
| IDFC 1011                                | Direct Current I                 |       |                          |
| IDSY 1105                                | AC Circuit Analysis              | 3     | <input type="checkbox"/> |
| OR                                       | OR                               |       |                          |
| ELTR 1020                                | Alternating Current Fundamentals |       |                          |
| OR                                       | OR                               |       |                          |
| IDFC 1012                                | Alternating Current I            |       |                          |

**Total Credit Hours: 14 Minimum Credit Hours Required to Complete Certificate**

### Industrial Systems Fundamentals Certificate Planning Notes:

- Courses for this Certificate are offered at the Floyd County Campus and Catoosa County Campus. Schedules at each campus may vary.
- Courses for this program can be taken in any order.
- Students should refer to Course Catalog for occupational elective options. Prerequisite requirements, if any, for occupational elective of choice may add an additional course.
- The Program Advisor for the Floyd Campus is Wesley Runyon, [wrunyon@gntc.edu](mailto:wrunyon@gntc.edu).
- The Program Advisor for the Catoosa Campus is Cody Holloway, [cholloway@gntc.edu](mailto:cholloway@gntc.edu).

Additional information for the Industrial Systems Fundamentals Certificate and program requirements can be found at [2026-2027 Catalog](#).